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The Ohio State University Bulletin

VOLUME XXII

DECEMBER, 1917

NUMBER 6

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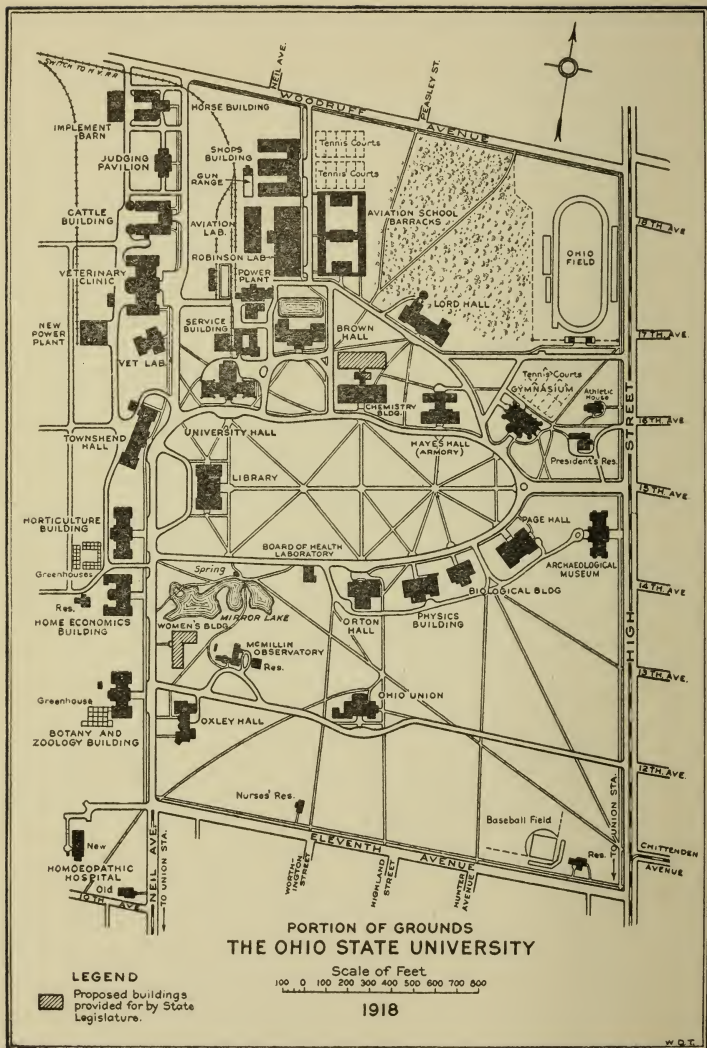
UNIVERSITY OF ILLINOIS

COLLEGE OF MEDICINE

1918-1919

PUBLISHED BY THE UNIVERSITY AT COLUMBUS

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UNIVERSITY CALENDAR

1918

Entrance examinations, Tuesday to Saturday, June 25 to 29, 8 A. M.
Summer Session, Monday, June 24 to Friday, August 16.

Entrance examinations, Tuesday to Saturday, September 10 to 14,
8 A. M.

Registration Day—First Semester—Tuesday, September 17.

President's Annual Address, Wednesday, September 18, 11 A. M.

Latest date for registration of candidates for a degree at the Com-
mencement of June, 1919, October 1.

Registration Day, Short Courses in Agriculture—First Term—Tues-
day, October 15.

Mid-semester reports to the Deans concerning delinquent students,
Wednesday, November 20.

Thanksgiving recess begins November 27, 1 P. M., and ends December
3, 8 A. M.

Christmas recess begins Friday, December 20, 6 P. M.

1919

Christmas recess ends Tuesday, January 7, 8 A. M.

Registration Day, Short Courses in Agriculture—Second Term—
Tuesday, January 7.

Final examinations, Wednesday, January 22 to Thursday, January 30.

First semester ends Thursday, January 30, 6 P. M.

Farmers' Week, Monday, January 27 to Friday, January 31.

Registration Day—Second Semester—Tuesday, February 4.

Washington's Birthday, Saturday, February 22.

Close of Second Term, Short Courses in Agriculture, Friday, March 21.

Mid-semester reports to the Deans, Saturday, March 22.

Easter recess, Thursday noon, April 10 to Tuesday, April 15, 8 A. M.

Memorial Day, Friday, May 30.

Competitive Drill—Cadet Regiment—Saturday, May 31.

Final examinations, Wednesday, June 4 to Thursday, June 12.

Commencement, Tuesday, June 17.

Entrance examinations, Tuesday, June 24 to Saturday, June 28, 8 A. M.

Summer Session, Monday, June 23 to Friday, August 15.

CALENDAR 1918

JANUARY

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CALENDAR 1919

JANUARY

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FEBRUARY

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JUNE

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JULY

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WILLIAM M. MUTCHMORE.....	<i>Custodian of the College Buildings</i>
CHARLES E. FINDLAY.....	<i>Secretary to the Dean</i>

*Absent on leave.

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President of the University

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*Professor of Preventive Medicine and Head of
Department of Public Health*

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Professor of Anatomy and Head of Department

ALBERT M. BLEILE, M. D. Biological Hall
Professor of Physiology

CHARLES B. MORREY, B. A., M.D. Veterinary Laboratory
Professor of Bacteriology and Head of Department

†THOMAS H. HAINES, B.A., M. A., Ph. D., M. D. 1197 Oak St.
Professor of Medicine (Nervous and Mental Diseases)

CLAIR A. DYE, G. Ph., Ph.D. Chemistry Hall
Professor of Materia Medica

ERNEST SCOTT, B. Sc., M. D. 710 N. Park St.
Professor of Pathology and Head of Department

CARL L. SPOHR, M. D. 710 N. Park St.
Professor of Clinical Pathology

JOHN H. J. UPHAM, M. D. 207 E. State St.
Professor of Medicine and Acting Head of Department

JOHN EDWIN BROWN, B. Sc., M. A., M. D. 239 E. Town St.
Professor of Oto-Laryngology and Head of Department

ANDREW TIMBERMAN, B. A., M.D. 112 E. Broad St.
Professor of Ophthalmology

ANDREWS ROGERS, B. A., M. D. 185 E. State St.
Professor of Obstetrics and Acting Head of Department

CLYDE BROOKS, B. A., Ph. D., M. D. Biological Hall
*Professor of Physiology and Pharmacology, and
Head of Department*

*Absent on leave.

†Absent on leave, first semester.

YEATMAN WARDLOW, M. D.....	350 E. State St.
<i>Professor of Clinical Gynecology</i>	
RAYMOND J. SEYMOUR, B. Sc., M. S., M. D.....	Biological Hall
<i>Assistant Professor of Physiology</i>	
WILLIAM A. STARIN, B. A., M. A.....	Veterinary Laboratory
<i>Assistant Professor of Bacteriology</i>	
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<i>Assistant Professor of Anatomy</i>	
CLAYTON McPEEK, B. A., M. D.....	710 N. Park St.
<i>Assistant Professor of Physiology</i>	
*JONATHAN FORMAN, B. A., M. D.....	710 N. Park St.
<i>Assistant Professor of Pathology</i>	
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<i>Assistant Professor of Public Health and Director of Hospital and Dispensary Social Service</i>	
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<i>Assistant Professor of Medicine</i>	
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<i>Assistant Professor of Medicine</i>	
CHARLES J. SHEPARD, M. D.....	112 E. Broad St.
<i>Assistant Professor of Medicine (Dermatology)</i>	
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<i>Assistant Professor of Medicine (Pediatrics)</i>	
*VERNE A. DODD, M. D.....	Protestant Hospital
<i>Assistant Professor of Surgery and Gynecology, Acting Head of Department</i>	
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<i>Assistant Professor of Clinical Surgery</i>	
FRED FLETCHER, M. D.....	289 E. State St.
<i>Assistant Professor of Gynecology</i>	
LESLIE L. BIGELOW, B. A., M. D.....	185 E. State St.
<i>Assistant Professor of Surgery</i>	
EDWIN A. HAMILTON, B. A., M. D.....	106 E. Broad St.
<i>Assistant Professor of Surgery</i>	

*Absent on leave.

ALEXANDER M. STEINFELD, M. D.....	129 S. Grant Ave.
<i>Assistant Professor of Surgery</i>	
*ELIJAH J. GORDON, M.D.....	612 E. Livingston Ave.
<i>Assistant Professor of Medicine</i>	
SOLOMON A. HATFIELD, M. D.....	St. Francis Hospital
<i>Assistant Professor of Medicine</i>	
*JAMES H. WARREN, B. A., M. D.....	710 N. Park St.
<i>Assistant Professor of Anatomy</i>	
EDWIN P. DURRANT, B. A., M. A.....	Biological Hall
<i>Instructor in Physiology</i>	
CARLOS I. REED, B. A.....	710 N. Park St.
<i>Instructor in Physiology</i>	
HENRY B. FRONING, B. A., M. A.....	Veterinary Laboratory
<i>Instructor in Bacteriology</i>	
VERA MCCOY MASTERS, B. Sc., M. A... ..	Veterinary Laboratory
<i>Instructor in Bacteriology</i>	
LEAR H. VAN BUSKIRK, B. Sc. in Chem. Engr.....	.....
.....	State Board of Health Laboratories
<i>Instructor in Public Health Laboratory Methods</i>	
HARLEY O. BRATTON, M. D.....	112 E. Broad St.
<i>Instructor in Medicine (Genito-Urinary Diseases)</i>	
RAYMOND A. RAMSEY, B. A., M. D.....	151 E. Broad St.
<i>Instructor in Medicine</i>	
*JOHN W. MEANS, D. D. S., M. D.....	715 N. High St.
<i>Instructor in Surgery</i>	
LUKE V. ZARTMAN, B. A., M. D....	289 E. State St.
<i>Instructor in Surgery</i>	
*PHILIP D. WILSON, B. A., M. D.....	106 E. Broad St.
<i>Instructor in Surgery</i>	
HUGH A. BALDWIN, M. D.....	347 E. State St.
<i>Instructor in Genito-Urinary Surgery</i>	
HUGH J. MEANS, B. A., M. D.....	322 E. State St.
<i>Instructor in Roentgenology</i>	
*GEORGE C. SCHAEFFER, M. D.....	151 E. Broad St.
<i>Instructor in Ophthalmology</i>	

*Absent on leave.

JOSEPH M. GALLEN, M. D.....	826 N. High St.
<i>Instructor in Surgery</i>	
HUGH G. BEATTY, Ph. G., M. D.....	150 E. Broad St.
<i>Instructor in Oto-Laryngology</i>	
ANDREW W. PROUT, M. D.....	239 E. Town St.
<i>Instructor in Oto-Laryngology</i>	
*ARTHUR M. HAUER, M. D.....	289 E. State St.
<i>Instructor in Oto-Laryngology</i>	
IVOR G. CLARK, B. Sc., M. D.....	188 E. State St.
<i>Instructor in Ophthalmology</i>	
CHARLES W. HADLEY, M. D.....	15 W. Goodale St.
<i>Instructor in Obstetrics</i>	
*GILBERT W. BREHM, M. D.....	677 N. High St.
<i>Instructor in Obstetrics</i>	
*EDWARD C. LUDWIG, M. D....	677 N. High St.
<i>Instructor in Surgery</i>	
RALPH A. KNOUFF, B. A., M. A.....	Biological Hall
<i>Instructor in Anatomy</i>	
*JOHN W. SHEETZ, M. D.....	207 E. State St.
<i>Instructor in Medicine</i>	
*SAMUEL HINDMAN, B. A., M. A., M. D.....	911 N. Fourth St.
<i>Instructor in Medicine</i>	
JOSEPH W. LEIST, M. D.....	1910 Summit St.
<i>Instructor in Medicine</i>	
*CARL C. HUGGER, M. D.....	710 N. Park St.
<i>Assistant in Pathology</i>	
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<i>Assistant in Medicine</i>	
GEORGE H. SHAWAKER, M. D.....	150 E. Broad St.
<i>Assistant in Medicine (Genito-Urinary)</i>	
*SAMUEL D. EDELMAN, M. D.....	640 E. Main St.
<i>Assistant in Medicine (Pediatrics)</i>	
FRANK C. WAGENHALS, M. D.....	131 E. State St.
<i>Assistant in Medicine (Neurology)</i>	

*Absent on leave.

†FREDERICK M. STANTON, B. Sc., M. D.....	2501 Summit St.
<i>Assistant in Surgery and Gynecology</i>	
EDGAR M. FREESE, M. D.....	129 S. Grant Ave.
<i>Assistant in Surgery</i>	
*PHILLIP J. REEL, M. D.....	322 E. State St.
<i>Assistant in Surgery</i>	
JOHN B. ALCORN, M. D.....	185 E. State St.
<i>Assistant in Ophthalmology</i>	
WILLIS H. HODGES, M. D.....	1239 N. High St.
<i>Assistant in Ophthalmology</i>	
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<i>Assistant in Ophthalmology</i>	
HAZEL CAMERON, B. Sc....	710 N. Park St.
<i>Assistant in Pathology</i>	
ROLLO C. BAKER, B. A., M. A.....	Biological Building
<i>Assistant in Anatomy</i>	
ZETA DONAHUE	156 Woodland Ave.
<i>Technical Assistant in Pathology</i>	
MARGARET W. FISHER	2296 Summit St.
<i>Technical Assistant in Pathology</i>	
ROBERT A. McDONALD.....	710 N. Park St.
<i>Technician in Anatomy</i>	
WILLIAM IRVING.....	710 N. Park St.
<i>Technical Assistant in Physiology</i>	
MARIANNE ALFF.....	Biological Hall
<i>Research Assistant in Physiology</i>	
P. E. STIFFEY.....	710 N. Park St.
<i>Assistant in Anesthetics</i>	
*W. N. TAYLOR.....	
<i>Assistant in Genito-Urinary Surgery</i>	
MARY WORCH.....	393 Fifteenth Ave.
<i>Technician in X-Ray Work</i>	
HOWARD H. YOAKEM	31 Sixteenth Ave.
<i>Student Assistant in Gross Anatomy</i>	

*Absent on leave.

†Absent on leave, first semester.

- WILL L. BEACH 122 Buttles Ave.
Graduate Assistant in Anatomy
- EDWARD E. H. BOYER..... 251 West Third Ave.
Graduate Assistant in Bacteriology
- MOZELLE C. WHIPPS..... 135 W. Frambes Ave.
Graduate Assistant in Bacteriology
- CLARENCE I. BRITT..... 1028 Dennison Ave.
Student Assistant in Anatomy
- WALLACE H. BUKER 1028 Dennison Ave.
Student Assistant in Anatomy
- MORRIS GOLDBERG..... 497 E. Main St.
Student Assistant in Anatomy
- RUDOLPH G. LEWIS..... 1028 Dennison Ave.
Student Assistant in Anatomy
- E. F. MAAG..... 793 Columbus St.
Student Assistant in Anatomy
- WILLIAM P. SMITH..... 1141 Summit St.
Student Assistant in Anatomy
- KENNETH D. SNEARY..... 424 Fourteenth Ave.
Student Assistant in Anatomy
- ANNE P. WARFIELD..... 335 Buttles Ave.
Student Assistant in Anatomy
- ELMER L. ROSHON..... 2136 Neil Ave.
Student Assistant in Bacteriology
- FRANK A. WATSON..... 677 N. High St.
Student Assistant in Physiology

COLLEGE OF MEDICINE

PROTESTANT HOSPITAL

*VERNE A. DODD, M. D., *Chief of Staff*
YEATMAN WARDLOW, M. D., *Acting Chief of Staff*

ATTENDING STAFF

Surgery

*Verne A. Dodd, M. D.
*John W. Means, M. D.
*Philip Wilson, M. D.
*Phillip J. Reel, M. D.

Gynecology

Yeatman Wardlow, M. D.

Orthopedics

Alexander M. Steinfeld, M. D.

Ophthalmology and Oto- Laryngology

John Edwin Brown, M. D.
Andrew Timberman, M. D.
*George C. Schaeffer, M. D.
Andrew W. Prout, M. D.
T. Rees Williams, M. D.
Willis H. Hodges, M. D.

Roentgenology

Hugh J. Means, M. D.
*Carl C. Hugger, M. D.

Anesthetics

*Edward C. Ludwig, M. D.

Pathology

Ernest Scott, M. D.
Carl L. Spohr, M. D.
*Jonathan Forman, M. D.

Medicine

John H. J. Upham, M. D.
Halbert B. Blakey, M. D.
*Eugene F. McCampbell, M. D.
Emery R. Hayhurst, M. D.
*Elijah J. Gordon, M. D.
Joseph W. Leist, M. D.
*Samuel Hindman, M. D.

Pediatrics

Elmer J. Horton, M. D.

Neurology

†Thomas H. Haines, M. D.

Dermatology

Charles J. Shepard, M. D.

Genito-Urinary Diseases

Harley O. Bratton, M. D.

Obstetrics

Andrews Rogers, M. D.
Charles W. Hadley, M. D.
*Gilbert W. Brehm, M. D.

*Absent on leave.

†Absent on leave, first semester.

ST. FRANCIS HOSPITAL

ISAAC B. HARRIS, M. D., *Chief of Staff*

ATTENDING STAFF

Surgery

Isaac B. Harris, M. D.
*Verne A. Dodd, M. D.
Leslie L. Bigelow, M. D.
Edwin A. Hamilton, M. D.
Luke V. Zartman, M. D.
Edgar M. Freese, M. D.

Gynecology

Fred Fletcher, M. D.
Joseph M. Gallen, M. D.

Genito-Urinary Diseases

Hugh A. Baldwin, M. D.

**Ophthalmology and Oto-
Laryngology**

John Edwin Brown, M. D.
Andrew Timberman, M. D.
Hugh A. Beatty, M. D.
*Arthur M. Hauer, M. D.
Ivor G. Clark, M. D.
John B. Alcorn, M. D.

Medicine

John H. J. Upham, M. D.
Jacob J. Coons, M. D.
*Eugene F. McCampbell, M. D.
Emery R. Hayhurst, M. D.
Solomon A. Hatfield, M. D.
Raymond A. Ramsey, M. D.
Robert L. Barnes, M. D.
*John W. Sheetz, M. D.

Neurology

†Thomas H. Haines, M. D.

Dermatology

Charles J. Shepard, M. D.

Pathology

Ernest Scott, M. D.
Carl L. Spohr, M. D.
*Jonathan Forman, M. D.

Roentgenology

Hugh J. Means, M. D.

*Absent on leave.

†Absent on leave, first semester.

CHILDREN'S HOSPITALLESLIE L. BIGELOW, M. D., *Chief of Staff***ATTENDING STAFF****Surgery***General*

Leslie L. Bigelow, M. D.

Medicine*General*

Elmer G. Horton, M. D.

Raymond A. Ramsey, M. D.
(Dispensary)*Dermatology*

Charles J. Shepard, M. D.

**Ophthalmology and Oto-
Laryngology**

*George C. Schaeffer, M. D.

Hugh J. Beatty, M. D.

Willis H. Hodges, M. D.

Ivor G. Clark, M. D.

Pathology

Ernest Scott, M. D.

Carl L. Spohr, M. D.

*Jonathan Forman, M. D.

Roentgenology

Hugh J. Means, M. D.

Dentistry

Harry M. Semans, D. D. S.

Clyde A. Hebble, D. D. S.

PARK STREET DISPENSARYEMERY R. HAYHURST, M. D., *Chief of Staff*ELIJAH J. GORDON, M. D., *Assistant Chief of Staff***ATTENDING STAFF****Surgery**

*John W. Means, M. D.

*Verne A. Dodd, M. D.

*Philip Wilson, M. D.

*Phillip J. Reel, M. D.

Medicine

Emery R. Hayhurst, M. D.

*Elijah J. Gordon, M. D.

Joseph W. Leist, M. D.

*Samuel Hindman, M. D.

Genito-Urinary Diseases

Harley O. Bratton, M. D.

*William N. Taylor, M. D.

Gynecology

Charles W. Hadley, M. D.

†Frederick M. Stanton, M. D.

Pediatrics

Elmer G. Horton, M. D.

*Samuel D. Edelman, M. D.

*Absent on leave.

†Absent on leave, first semester.

Eye

*George C. Schaeffer, M. D.
Andrew W. Prout, M. D.

Neurology

†Thomas H. Haines, M. D.
Frank C. Wagenhals, M. D.

Dermatology

Charles J. Shepard, M. D.

Ear, Nose and Throat

Andrew W. Prout, M. D.
T. Rees Williams, M. D.
Willis H. Hodges, M. D.

STATE STREET DISPENSARY

EMERY R. HAYHURST, M. D., *Chief of Staff*
SOLOMON A. HATFIELD, M. D., *Assistant Chief of Staff*

ATTENDING STAFF**Surgery**

Isaac B. Harris, M. D.
Leslie L. Bigelow, M. D.
Edwin A. Hamilton, M. D.
Luke V. Zartman, M. D.
Edgar M. Freese, M. D.
Alexander M. Steinfeld, M. D.

Medicine

Solomon A. Hatfield, M. D.
Robert L. Barnes, M. D.
Joseph W. Leist, M. D.
*John W. Sheetz, M. D.

Genito-Urinary Diseases

Hugh A. Baldwin, M. D.
George H. Shawaker, M. D.

Eye

Ivor G. Clark, M. D.
John B. Alcorn, M. D.

Dermatology

Charles J. Shepard, M. D.

Pediatrics

Raymond A. Ramsey, M. D.

Ear, Nose and Throat

*Arthur M. Hauer, M. D.
Hugh G. Beatty, M. D.
T. Rees Williams, M. D.

Neurology

†Thomas H. Haines, M. D.
Frank C. Wagenhals, M. D.

Gynecology

Joseph M. Gallen, M. D.
Fred Fletcher, M. D.

*Absent on leave.

†Absent on leave, first semester.

THE OHIO STATE UNIVERSITY

The Ohio State University is maintained by appropriations from the State and Federal governments. It is located in the northern part of the city of Columbus, and is reached from the Union Station by North High Street or Neil Avenue electric cars. It comprises a graduate school and eleven colleges as follows:

Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy and Science	College of Homoeopathic Medicine
College of Commerce and Journalism	College of Law
College of Dentistry	College of Medicine
	College of Pharmacy
	College of Veterinary Medicine

The College of Medicine is located on Park Street near Buttles Avenue, four blocks north of the Union Station.

This bulletin is devoted exclusively to the work of the College of Medicine for the academic year, 1918-1919.

For bulletins of the College of Medicine, or any information in regard to entrance, address L. E. Wolfe, Secretary of the Entrance Board, Ohio State University, Columbus, Ohio. For information concerning the college, address the Dean of the College of Medicine, North Park Street, Columbus, Ohio.

Note—The University publishes a bulletin descriptive of each college. Copies may be obtained by addressing L. E. Wolfe, Secretary of the Entrance Board, Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.

COLLEGE OF MEDICINE

HISTORICAL

The College of Medicine, through its predecessors ranks as the third oldest medical college in the State and incorporates all the best medical college interests in central Ohio. The college stands upon a foundation of six medical schools with a continuity of college life covering more than eighty years. These colleges were the Medical Department of Willoughby University of Lake Erie 1834-46, the Willoughby Medical College of Columbus, 1846-47, the Starling Medical College, 1847-1907, the Columbus Medical College, 1875-92, the Ohio Medical University, 1892-1907, and the Starling-Ohio Medical College, 1907-14.

Recognizing the great advantage that might accrue to the cause of medical education in Ohio and to the entire medical profession and citizenship through the establishment of a College of Medicine by the Ohio State University, the Trustees of the Starling-Ohio Medical College gave to the state of Ohio all its properties both real and personal for this purpose. The College of Medicine, therefore, began its career with an honorable history, with an alumni body of more than three-thousand and an established reputation and position.

PARK STREET BUILDING

This building is located on Park Street near Buttles Avenue fronting on Goodale Park. It consists of a large four-story building and a basement with a frontage of 94 feet and a depth of 150 feet. This building furnishes ample facilities for the numerous laboratories, teaching rooms, medical and dental dispensaries and administration offices. Two large rooms on the third floor are used for hospital purposes and are directly connected with the Protestant Hospital Building.

STATE STREET BUILDING

The main building is known as the St. Francis Hospital. It is used jointly for hospital purposes and clinical teaching, giving the advantage of bedside instruction and conference clinics under the same roof. The other building is used for an out-door dispensary and a

clinico-pathological laboratory. This valuable property occupies a quarter square on the corner of State and Sixth Streets and is now the property of the state.

CLINICAL FACILITIES

HOSPITALS AND THEIR RELATIONS TO THE COLLEGE

PROTESTANT HOSPITAL

By contract, the College of Medicine has full clinical control of the charity patients in the Protestant Hospital. The hospital has a capacity of one hundred beds—fifty of which are charity beds and are under the full control of the college. All members of the visiting and house staff are nominated from the Faculty by the Trustees of the University and confirmed by the Trustees of the Protestant Hospital.

This hospital is located on Park Street and joins the college building. It was incorporated March 18, 1891, under the name of the Protestant Hospital Association, by the Methodist Episcopal Church. Other denominations unite in its support and are represented on its Board of Trustees. Its first home was on Dennison Avenue where the Hospital was conducted in part until 1898, when the present fireproof building was completed. The site was donated and substantial aid given toward the construction of the building by the Ohio Medical University. For these and other considerations the college was given a perpetual lease on the clinical privileges, which was transferred to the Ohio State University. A first-class X-ray laboratory occupies a convenient place in the college and is open to all charity patients as well as those able to pay. The pathological and clinical laboratories are available for the benefit of hospital and dispensary patients.

ST. FRANCIS HOSPITAL

As a condition of the lease of the St. Francis Hospital building to the Sisters of the Poor of St. Francis, for hospital purposes, the clinical material is under the direct control of the College of Medicine. All members of the Staff are elected by the Trustees of the University. The capacity of the hospital is one hundred and fifty charity beds. The whole building except one clinical amphitheater and one surgical

amphitheater is leased to the Sisters for hospital purposes. Owing to the central location of the hospital a great number of emergency cases are found in the wards. These patients afford excellent clinical material. The hospital is well equipped for treating the sick, taking care of the injured and for conducting clinical work.

A well equipped clinical-pathological laboratory is located in the adjoining building which furnishes ample facilities for tissue and other examinations, and is in charge of a well trained teacher and pathologist who gives all his time to this work. A new and well equipped X-ray laboratory is used for diagnostic purposes. Extended improvements have been made to the building by adding sun rooms, interne rooms and an electric elevator.

CHILDREN'S HOSPITAL

This hospital, incorporated in 1892 by a group of generous spirited citizens, has become a public institution, through the fact that it is supported entirely by charitable gifts.

It has a capacity of fifty beds, and accepts all types of cases, except those of a contagious nature, the age limit being fifteen years.

There is conducted a free daily dispensary for general medical and surgical cases, a free daily dental clinic for hospital and dispensary cases. An eye, ear, nose and throat dispensary is open bi-weekly and crippled children have access to a free dispensary one day each week.

For the correction of functional deformities a medical gymnasium is in daily use. A weekly psychic clinic is conducted under the auspices of the Department of Psychology of the Ohio State University, testing the mentality of abnormal children.

A social service department was established in October, 1916, whereby effective follow-up work is done by a medically trained social service worker.

A large proportion of the examining work for the Juvenile Court, the Big Sisters Association, the Oak Street Day Nursery, the Humane Society, as well as that in connection with the Child Welfare Department of the State Board of Charities, is done at the Children's Hospital.

All of the facilities of this hospital are available for clinical purposes, through an arrangement with the Ohio State University, whereby a part of the clinical staff is nominated by the medical school, subject to the confirmation of the Board of Trustees.

COLUMBUS STATE HOSPITAL

This institution, established, controlled and maintained by the state for the care of its insane, is one of the largest hospitals in Ohio. Its numerous patients exhibit all the different forms of insanity and furnish excellent opportunities for teaching psychiatry. The clinical instruction is given by the superintendent and one of the staff physicians. These teachers are specialists and the instruction is therefore most valuable.

THE FRIEND'S RESCUE HOME

This is an obstetrical hospital with fifteen beds. It furnishes a considerable number of obstetrical cases during the year. The students are permitted, under the direction of competent teachers to conduct labor cases.

An out-patient obstetrical service is maintained in connection with the City Board of Health, District Nursing Association, and other charities. This work affords valuable experience for the students. They are brought into touch with environments and conditions such as exist in general practice.

HOSPITAL POSITIONS

There are in Columbus about fifteen positions for resident physicians in various hospitals open principally to graduates of the College of Medicine. These appointments are secured largely by competition.

DISPENSARIES

The Park Street Dispensary adjoins the Protestant Hospital and is attended by one-half of the Senior Class. The State Street Dispensary adjoins the St. Francis Hospital and is attended by one-half of the Senior Class.

The service in each dispensary is conducted by well trained teachers under the direction and personal attention of senior professors and includes general medicine, general surgery, gynecology, ophthalmology, otology, rhino-laryngology, genito-urinary diseases and dermatology.

These free dispensaries are the only general ones in the city and are owned, maintained and conducted by the College of Medicine. The attending class in each is divided into six sections which are assigned for a definite number of weeks in each department.

Each dispensary is in charge of a salaried superintendent whose duty it is to be present every day during dispensary hours, and to see that the patients are distributed to the several departments and receive proper attention. The students are required to examine patients, write histories, make necessary laboratory tests, make diagnoses and suggest treatment under the direction of the teachers. Attendance on these clinics is required and is made a part of the student's record.

MEDICO-SOCIAL WORK

Medico-social work was organized in 1916 in connection with the two dispensaries and the two hospitals now partially or wholly under the control of the University. The organization consists of a director in general charge of the entire work. A social service nurse has charge of the detailed work which is performed by the public health nurses and the clerks assigned to the dispensaries or hospitals. There is close coordination between the Medical and Medico-social departments.

The Medico-social department conducts the admission bureaus in both dispensaries and hospitals. All non-medical records are made here. The medical records are also filed in this department. Centralization of this work makes for better and more complete record keeping. This means a clearer understanding on the part of medical student and staff of the obvious complaint of the patient with consequent better treatment. It also means a more complete understanding of the previous history and environment of the patient which, more often than not, throws light upon the present complaint of the patient.

Close cooperation with the varied charitable organizations in the city of Columbus give to the medical student an opportunity to secure an understanding of the purposes of such organizations, their methods of work and the services which they render. The patient in dispensary or hospital is connected with his home either through these organizations or directly. This means that the vast amount of charitable endeavor that takes place within the dispensary or hospital in the effort to ameliorate pain is transferred to the patient's home whenever necessary. This insures a better opportunity for complete recovery and greater possibilities in guarding against a re-occurrence of the disease which drove the man to the medical institution.

In a word, the Medico-social department thinks in terms of prevention; the Medical departments think in terms of cure.

LABORATORIES

DISSECTING LABORATORY

The dissecting laboratory includes two large rooms with a floor space of more than 3,500 square feet. It is equipped with modern tables, appliances for dissection and anatomical specimens, such as cross sections, skeletons and prepared organs. There are also ample facilities for the preparation and preservation of anatomical material.

PATHOLOGICAL AND HISTOLOGICAL LABORATORIES

These occupy a large, well lighted room with tables, lockers and other necessary equipment for microscopical work. The pathologic specimens are obtained from the hospitals and from post-mortems. There are adjacent rooms for preparing and storing specimens, private offices for the professors, a departmental library and a large recitation room in which is installed a modern projectoscope.

CLINICO-PATHOLOGICAL LABORATORY

This laboratory is located in a spacious, well lighted room equipped with tables, lockers, high power microscopes and other apparatus necessary for teaching.

Facilities for conducting all technical laboratory experiments and tests are amply provided. (Blood, urine, stomach contents, and feces analysis are made.) The course given includes instruction in serum-therapy. Autogenous vaccines are prepared for treatment of patients in the hospital wards and dispensaries.

CHEMICAL LABORATORY

This laboratory is well equipped with tables, lockers and scientific apparatus. The room is well ventilated, electric fans being used to carry off gases.

PHYSIOLOGICAL AND PHARMACOLOGICAL LABORATORY

These combined laboratories occupy a whole floor of the main laboratory building. They are equipped with all the necessary appliances for individual work and for class demonstrations. There are thirty-four tables each provided with lockers and a complete Harvard outfit.

BACTERIOLOGICAL LABORATORY

The laboratories of the Department of Bacteriology are located in the Veterinary Laboratory Building. There are three laboratories fitted with separate lockers to accommodate two hundred and twenty students; one room for experimental animals, one for inoculated animals, and two incubator rooms. These rooms are each equipped with the necessary incubators, hot air and steam sterilizers, autoclaves, microscopes, etc., with facilities for advanced and original work.

EXPERIMENTAL LABORATORY

This laboratory is fully equipped with apparatus for experimental work and operative surgery. The animal room is located conveniently near.

X-RAY LABORATORIES

These laboratories are installed on the first floor of the hospital buildings, easily accessible to the hospitals and dispensaries. They are equipped with the most up-to-date apparatus for diagnosis of visceral lesions and bone diseases, as well as ordinary radiographic work. An apparatus is provided for exhibition of negatives in clinical conferences.

LIBRARY FACILITIES

DEPARTMENTAL LIBRARIES

The Medical Library is located in the Medical Building on Park Street. It contains about 1,000 volumes, mainly a working collection of medical and dental reference books. The current numbers of medical and dental periodicals are on file. The main medical collection is housed in the General Library on the campus.

Each laboratory houses its own library of journals and the standard text and reference-books in the subjects concerned. Over fifty periodicals are in the files including the leading journals in medicine, surgery and the medical sciences.

The University and State Libraries are open to all students who wish to investigate any subject in general science or in medicine.

ADMISSION

THE ENTRANCE BOARD

Admission of students into the College of Medicine is in charge of the University Entrance Board which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the *Entrance Board, the Ohio State University, Columbus, Ohio.*

REQUIREMENTS FOR ADMISSION

To secure admission to the College of Medicine, the applicant must present the following:

(1) **An Ohio State Student's Certificate** (to be obtained from the Entrance Examiner of the Ohio State Medical Board).

The state law governing the practice of Medicine in Ohio prescribes that every person before entering a medical college must receive a Student's Medical Certificate issued by the Examiner of the State Medical Board. Regulations for securing this certificate may be obtained by writing to the Entrance Examiner of the Ohio State Medical Board, State House, Columbus, Ohio.

The certificate issued by the Medical Board has two uses: (1) It certifies that the holder has satisfied the minimum educational requirements as fixed by law for admission to medical colleges, which is equivalent to graduation from a first grade high school. It is therefore a prerequisite for matriculation in any medical college in the state of Ohio. (2) This certificate with the diploma issued by a recognized college, must be submitted to the Secretary of the State Medical Board by an applicant for admission to the examinations for a license to practice medicine in Ohio.

(2) **A Certificate of Work in Secondary Schools.** This must certify to graduation from a high school of the first grade (or from a preparatory school of equivalent rank), and must cover fifteen standard units for admission. In lieu of a certificate of graduation from a high school of the first grade, or of equivalent rank, a candidate for admission may meet the entrance requirements by passing examinations in fifteen units.

(3) **A Certificate of College Attainments**, showing that the applicant has obtained credit for at least two years of college work either in the College of Arts, Philosophy and Science of the Ohio State University, or in some other college of approved standing. These credits must total at least sixty semester hours, exclusive of military drill or physical education, and must include the following:

FIRST YEAR

	First Semester	Second Semester
Foreign Language (French or German preferred) .	4	4
English	2	2
Chemistry (general and qualitative).....	4	4
Social Science	3	3
Zoology (101)	3	
Anatomy (102)		3

SECOND YEAR

Foreign Language (French or German preferred) .	4	4
†Psychology (101-102).....	3	3
Physics (103-104 or 105-106).....	4	4
Chemistry (organic)	5	
Physiology (132).....		3
English.....		2

ADVANCED STANDING AND OTHER INFORMATION

Graduates in Arts or Sciences, (or holders of a higher degree from an accredited college) or graduates of colleges of Pharmacy or Dentistry, who have taken either a preparatory medical course, or an acceptable course in organic chemistry, physiology or bacteriology, may be given subject-credit provided they present satisfactory credentials to the Entrance Board of having met the requirements of this college. But students given such advanced credit must in lieu thereof take such additional work as will give them no less than thirty semester hours each year in the first and second years of the medical course, except on the recommendation of the Executive Committee.

†Students who have not had their preparation at the Ohio State University may offer a substitution for Psychology.

CREDIT FOR WORK DONE IN OTHER MEDICAL COLLEGES

Students from acceptable medical colleges may be admitted to advanced standing under the following rules:

1. They must present satisfactory evidence that they have met the entrance requirements of this college.
2. They must present credentials from the proper officer of the medical college attended, showing that they were registered medical students and in residence for the time for which credit is sought, and that they have met all financial obligations.
3. They must present official credentials of having completed courses of the same scope and extent as the course for which they seek credit and satisfy the head of each department of their proficiency. These credentials must be accompanied by a certificate from the Dean or Corresponding Officer supporting the above facts.

SPECIAL STUDENTS

Graduates of Medicine or persons desiring to take courses not leading to graduation may be registered as special students, and may be admitted to courses for which they have the prerequisites and upon the payment of the fees required.

COMBINATION COURSES

THE ARTS-MEDICINE COURSE

SEVEN YEARS

This course includes the first three years of the curriculum of the College of Arts, Philosophy and Science and the four years' curriculum of the College of Medicine. On the conditions prescribed below, the degree of Bachelor of Arts is conferred at the end of the first year of the course in Medicine, and the degree of Doctor of Medicine at the end of the fourth year of the course in Medicine.

Admission to the College of Arts. Required: English, 3 units; language other than English, 4 units; history, 1 unit; physics or chemistry, 1 unit; mathematics, 2 units; elective, 4 units. Total 15 units.

Residence in the College of Arts. The privilege of entering the Arts-Medicine course is open only to those who spend at least one of the three undergraduate years in residence in the College of Arts, Philosophy and Science of the Ohio State University.

Standing. The privilege of counting the first year of Medicine as the senior year in Arts is open only to those students who during the three years in Arts, Philosophy and Science maintain a standing of at least "A" (Average).

Group-Requirements. During the three years in Arts, the student must fulfill the group-requirements for the degree of Bachelor of Arts as described in the Bulletin of the College of Arts, Philosophy and Science and further must include in his Arts course the following:

- (a) Physics: 8 semester hours.
- (b) Chemistry: 13 semester hours (five hours of which shall be organic chemistry).
- (c) Biology: 12 semester hours, comprising general zoology, 3 semester hours (Zoology 101); comparative anatomy of vertebrates,

3 semester hours (Anatomy 101); and Physiology 101-102, 6 semester hours.

(d) Psychology (101-102) 6 semester hours.

(e) English 6 semester hours.

Electives. No part of the course in Medicine may be counted as elective in the College of Arts, Philosophy and Science, during the three undergraduate years.

Degrees. When the student has completed at least 90 hours as above, in addition to military drill and physical education, he may enroll in the College of Medicine, and when he has gained credit for the first year's work in the College of Medicine, he will be recommended by the faculty of the College of Arts, Philosophy and Science for the degree of Bachelor of Arts. When he has gained credit for the second, third, and fourth year's work in the College of Medicine, he will be recommended by the faculty of the College of Medicine for the degree of Doctor of Medicine.

THE SCIENCE-MEDICINE COURSE

SIX YEARS

This course includes the first two years of the curriculum of the College of Arts, Philosophy and Science and the four years' curriculum of the College of Medicine. On the conditions prescribed below, the degree of Bachelor of Science is conferred at the end of the second year of the course in Medicine, and the degree of Doctor of Medicine at the end of the fourth year of the course in Medicine.

Admission. The same as for the Arts-Medicine Course.

Residence. The same as for the Arts-Medicine Course, substituting two years for three years.

Standing. The privilege of counting the first two years in Medicine as the last two years in the College of Arts, Philosophy and Science is open only to those students in the Ohio State University who maintain a standing of at least "A" (average).

CURRICULUM—FIRST YEAR

	First Semester	Second Semester
Foreign Language(French or German Preferred)	4	4
English	2	2
Chemistry(general and qualitative).....	4	4
Social Science	3	3
Zoology(101).....	3	
Anatomy(102).....		3

SECOND YEAR

Foreign Language(French or German preferred)..	4	4
†Psychology(101-102).....	3	3
Physics(103-104 or 105-106).....	4	4
Chemistry(organic).....	5	
Physiology(132).....		3
English.....		2

†Students who have not had their preparation at the Ohio State University may offer a substitution for Psychology.

Degrees: When the student has completed at least 60 hours as above, in addition to military drill and physical education, he may enroll in the College of Medicine, and when he has gained credit for the first two years' work in the College of Medicine, he will be recommended by the faculty of the College of Arts, Philosophy and Science for the degree of Bachelor of Science. When he has gained credit for the third and fourth years' work in the College of Medicine he will be recommended by the faculty of the College of Medicine for the degree of Doctor of Medicine.

SPECIAL ANNOUNCEMENTS

The combination courses of Science-Medicine and Arts-Medicine are open to students of colleges and universities that have no medical departments. Each college must determine, however, the time of residence required before matriculating in the College of Medicine and the required residence in the Medical College before granting the academic degree.

In the interest of higher educational ideals, the Ohio State University invites the cooperation of colleges and universities in an effort to popularize these courses.

COLLEGE OF MEDICINE

CURRICULUM

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Anatomy.....(121)	6	Anatomy.....(122)	4
Human Anatomy		Human Anatomy	
Anatomy... ..(133)	6	Anatomy.....(134)	4
Histology and Embryology		Histology and Embryology	
Physiology.....(123)	4	Anatomy.....(136)	4
Bio-Chemistry		Neurology	
Materia Medica.....(131)	2	Materia Medica.....(132)	3
		*Elective.....	3

SECOND YEAR

Anatomy.....(127)	3	Pathology.....(109)	7
Applied Human Anatomy		Physiology.....(122)	5
Bacteriology.....(141)	6	Physiology.....(130)	4
Medical Bacteriology		Pharmacology	
Physiology.....(121)	5	Medicine.....(104)	2
Surgery.....(104)	2	Physical Diagnosis	
Minor Surgery			
*Elective.....	2		

THIRD YEAR

Surgery.....(101)	5	Surgery.....(102)	5
General		General	
Ophthalmology.....(101)	2	Medicine.....(102)	5
Medicine.....(101)	5	General and Clinical	
General and Clinical		Medicine.....(126)	2
Pathology.....(119)	2	Genito-Urinary Diseases	
Clinical Pathology		Medicine.....(108)	2
Medicine.....(106)	2	Dermatology	
Nervous Diseases		Obstetrics.....(102)	2
Oto-Laryngology.....(105)	2	Surgery.....(106)	2
		Gynecology	
		Pathology.....(120)	1
		Clinical Pathology	

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Surgery	(127) 1	Surgery.....	(128) 1
Conference Clinics		Conference Clinics	
Medicine	(113) 2	Medicine	(114) 2
General and Clinical		General and Clinical	
Public Health ..	(115) 2	Medicine	(122) 1
Preventive Medicine		Pediatrics	
Medicine....	(128) 2	Obstetrics	(106) 3
Pediatrics		Medicine	(118) 1
Obstetrics.....	(105) 2	Psychiatry	
Surgery ..	(116) 1	Hospital Ward Clinics	(102) 4
Orthopedic Surgery		Medicine and Surgery	
Surgery	(111) 1	Dispensary Clinics.....	(104) 2
Operative Surgery		Pathology	(103) or (104) 2
Hospital Ward Clinics	(101) 4	Surgical or Medical	
Medicine and Surgery		Medical Law	(101) 1
Dispensary Clinics	(103) 2	Special Lectures.....	1
*Elective	1		

*Subject to approval of Executive Committee.

ATTENDANCE

In any course the minimum of attendance for which credit is allowed is 85 per cent of the scheduled hours. The margin of fifteen per cent is allowed to provide against serious illness or other unavoidable absence. Regular attendance upon scheduled work is required, and the Executive Committee is authorized to place on probation or recommend for dismissal any student who violates this rule without good cause. Absences just preceding or just following vacations are subject to especially rigid investigation.

EXAMINATIONS

Practical examinations in addition to the regular written examinations are held in the second semester of the senior year in the following subjects: pathology, surgery and gynecology, medicine, obstetrics, ophthalmology, and oto-laryngology.

Before being recommended by the faculty for graduation, each senior student must successfully pass the practical as well as the written examination.

1918-1919

SUBJECT	Year	First Semester					Second Semester					Grand Total Hours			
		Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	
Anatomy															
Human Anatomy	I	121	48	176	224	6	122	32	128	160	4	80	304	384	10
Applied Human Anatomy	2	127	32	48	80	3	.....	.....	.....	.....	.....	32	48	80	3
Histology and Embryology	I	133	48	144	192	6	134	32	96	128	4	80	240	320	10
Neurology	I	.....	.....	.....	.....	.....	136	32	96	128	4	32	96	128	4
Vertebrate Embryology ..															
(Elective)	I	103	16	{ 192 208 }	{ 384 400 }	3 to 5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gen. Microscopic Tech-				{ 384 400 }	{ 240 256 }	3 to 5	.....	.....	.....	.....	.....	.....	.....	.....	.....
nique (Elective)	I	149	16	{ 144 160 }	{ 240 256 }	3 to 5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Special Microscopic Tech-				{ 144 160 }	{ 240 256 }	3 to 5	.....	.....	.....	.....	.....	.....	.....	.....	.....
nique (Elective)	I	.....	.....	.....	.....	.....	150	16	{ 240 256 }	{ 384 400 }	3 to 5	.....	.....	.....	.....
Spec. Advanced Anatomy							.....	.....	.....	.....	.....	.....	.....	.....	.....
(Elective) .....	.....	.....	.....	.....	.....	.....	152	16	288	304	3	.....	.....	.....	.....
Physiology															
Physiology	2	121	32	144	176	5	122	32	144	176	5	64	288	352	10
Physiology—Bio-Chemis-							.....	.....	.....	.....	.....	.....	.....	.....	.....
try	I	123	32	96	128	4	.....	.....	.....	.....	.....	32	96	128	4
Physiology—Pharmacol-							.....	.....	.....	.....	.....	.....	.....	.....	.....
ogy	2	.....	.....	.....	.....	.....	130	32	96	128	4	32	96	128	4
Materia Medica															
Materia Medica	I	131	32	.....	32	2	132	32	48	80	3	64	48	112	5
Bacteriology															
Medical Bacteriology...	2	141	48	144	192	6	.....	.....	.....	.....	.....	48	144	192	6
Immunity and Serum															
Therapy (Elective)	2	117	16	{ 48 64 }	{ 192 208 }	2 to 5	118	16	{ 48 64 }	{ 192 208 }	2 to 5	.....	.....	.....	.....
Pathogenic Protozoa				{ 48 64 }	{ 192 208 }	2 to 5	.....	.....	.....	.....	.....	.....	.....	.....	.....
(Elective)	2	119	16	{ 48 64 }	{ 192 208 }	2 to 5	120	16	{ 48 64 }	{ 192 208 }	2 to 5	.....	.....	.....	.....
Special Problems in Bac-				{ 96 112 }	{ 192 208 }	3 to 5	.....	.....	.....	.....	.....	.....	.....	.....	.....
teriology (Elective)	2	125	16	{ 96 112 }	{ 192 208 }	3 to 5	126	16	{ 96 112 }	{ 192 208 }	3 to 5	.....	.....	.....	.....

SUBJECT	Year	First Semester					Second Semester					Grand Total Hours			
		No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.
Hospital															
Hospital Ward Clinics in Surgery and Medicine..	4	101	.....	192	192	4	102	...	192	192	4	....	384	384	8
Medicine															
Physical Diagnosis.....	2	.....	.....	.....	.....	.....	104	16	32	48	2	16	32	48	2
Medicine, Gen. & Clinical	3	101	64	48	112	5	102	64	48	112	5	128	96	224	10
Nervous Diseases.....	3	106	32	.....	32	2	.....	.....	.....	.....	.....	32	....	32	2
Dermatology	3	.....	.....	.....	.....	.....	108	32	.....	32	2	32	....	32	2
Genito-Urinary Diseases..	3	.....	.....	.....	.....	.....	112	32	.....	32	2	32	....	32	2
Medicine.....	4	113	16	48	64	2	114	16	48	64	2	32	96	128	4
Psychiatry	4	.....	.....	.....	.....	.....	118	.....	48	48	1	....	48	48	1
Pediatrics	4	121	16	48	64	2	122	.....	48	48	1	16	96	112	3
Public Health and Sanitation															
Preventive Medicine.....	4	115	32	.....	32	2	.....	.....	.....	.....	.....	32	....	32	2
Obstetrics															
Obstetrics	3	.....	.....	.....	.....	...	102	16	32	48	2	16	32	48	2
Obstetrics & Conductions.	4	105	16	32	48	2	106	16	32	48	3	32	64	96	5
Medical Law	4	.....	.....	.....	.....	.....	.....	16	.....	16	1	16	....	16	1
Special Lectures	4	.....	.....	.....	.....	.....	.....	16	.....	16	1	16	....	16	1
Dispensary															
Dispensary Clinics.....	4	103	.....	120	120	2	104	.....	120	120	2	....	240	240	4
Electives required throughout Course .....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	240	256	6
												1232	3280	4512	145

COURSE IN PUBLIC HEALTH NURSING

GENERAL INFORMATION

The principal object of the course is to supplement the training received by women in recognized training schools for nurses, in order to further prepare them to take up work, now generally designated as public health nursing, in the cities and rural communities.

It is recognized that the requirements for public health service are broad and complicated. Preliminary training for this service is as essential to a full understanding of the manifold problems, as it is for any other of the applied sciences. Exceptional opportunities for the first hand study of public health nursing work are offered students in this course. The files, records, and reports in the office of the State Supervising Nurse, Division of Public Health Education, State Board of Health, located at the University, afford a wealth of information, where the student may study and observe the various elements of strength and weakness in the public health nursing work in any section or locality in the state of Ohio.

In addition close affiliation with local nursing and social service organizations in the city of Columbus affords an exceptional opportunity for the student to observe the actual conduct of the daily work of these organizations in meeting the problems presented by a growing community. Such organizations as the Instructive District Nursing Association, the Society for the Prevention and Cure of Tuberculosis, the Medical Inspection Department of the Board of Education, Juvenile Court Department of Public Welfare, the hospitals and dispensaries of the Medical College of the University, and the Associated Charities, all in the city of Columbus, indicate the scope of field work available for the student.

ADMISSION

The admission of students is in charge of the University Entrance Board, which determines the credits which shall be issued on all entrance examinations and certificates, and furnishes all desired information to applicants. Correspondence relating to admission should be addressed to the Entrance Board, Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

An applicant for admission to this course must be a graduate of a training school connected with a hospital, having not less than fifty beds at the time of graduation and giving not less than three consecutive years' course of training in general medical, surgical, obstetrical, and pediatric nursing. The applicant must be a registered nurse and possess at least a high school diploma or its equivalent.

CURRICULUM IN PUBLIC HEALTH NURSING

FIRST SEMESTER		SECOND SEMESTER	
Public Health.....	(101) 2	Public Health.....	(110) 2
Public Health Administration		Preventive Medicine	
*English.....	(101) 2	*English.....	(104) 2
Public Health.....	(103) 2	Public Health.....	(104) 2
Medico-Social Work		Medico- Social Work	
Public Health.....	(105) 2	Public Health ..	(106) 2
Public Health Nursing		Public Health Nursing	
Public Health.....	(123) 2	Public Health.....	(124) 2
Public Health Problems		Public Health Problems	
Public Health.....	(107) 3	Public Health.....	(108) 3
Medico-Social Field Work		Medico-Social Field Work	
*Home Economics.....	(125) 3	*Home Economics.....	(126) 3
Survey of Home Economics		Survey of Home Economics	

*Students who have completed one or more of these courses will be permitted to elect an equal amount of other work subject to the approval of the Executive Committee.

RESIDENCE REQUIREMENT

A residence of one year wholly devoted to this work is required.

CERTIFICATE

A certificate in Public Health Nursing will be issued by the University to each student who completes satisfactorily the full course.

EXAMINATION

Each student is required to pass a final examination upon all work included in the curriculum of study.

PUBLIC HEALTH AND SANITATION

GENERAL INFORMATION

This course in Public Health is offered under the administration of the Graduate School of the Ohio State University with the cooperation of the Ohio State Department of Health.

The principal object of this course is to prepare young men and women for public health work in Ohio and elsewhere; to fit them to occupy administrative and executive positions as health officers, members of boards of health, secretaries, agents, or inspectors of health organizations, either official or voluntary. The course is planned to provide the scientific groundwork of sanitary knowledge, which underlies efficient health administration. To this end, lectures, laboratory work and other methods of instruction are arranged. Special lectures from national, state and local health agencies will serve to bring before the student some of the current health problems in concrete form. The subjects embraced in the courses of study have been selected to cover a wide range, including medical, biological, hygienic, social and engineering sciences, together with practical health administration.

Exceptional opportunities for the first hand study of the practical applications of the arts of public health work are offered to students in this course. The offices of the State Department of Health, located on the campus, afford a mine of information, where the student may observe the various elements of strength and weakness in the administration of the public health work in any section or locality in the state of Ohio.

The city of Columbus presents a growing community where the public health problems are constantly increasing in number and complexity. The various village and township boards of health in the vicinity of Columbus make it possible for the student to observe the relatively simpler problems of small communities and the methods which are adopted to solve them. In addition to the official health agencies, there are numerous voluntary health organizations in Columbus. The function, purpose, methods of work and results achieved may be studied by the student at close range.

ADMISSION

UNIVERSITY ENTRANCE BOARD

The admission of students is in charge of the University Entrance Board, which determines the credits which shall be issued on all entrance examinations and certificates, and furnishes all desired information to applicants. Correspondence relating to admission should be addressed to the Entrance Board, Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

Any person holding the degree, Bachelor of Arts or an equivalent degree from the Ohio State University or from any other institution of like standing, will be admitted and registered as a candidate for the degree of Master of Science (in public health), provided one year's preliminary training has been taken in his collegiate course, in each of the following subjects: chemistry, physics, zoology, comparative anatomy, physiology and pathogenic bacteriology.

Graduates in Medicine of the Ohio State University or of other recognized medical schools, will be admitted to the course upon their records and registered as candidates for the degree.

Special students, not candidates for the degree of Master of Science (in public health), who desire to fit themselves for some special field will be admitted to the course on the approval of the Graduate Council.

CURRICULUM

FIRST SEMESTER		SECOND SEMESTER	
Public Health	(201) 2	Public Health	(204) 2
Hygiene—Personal		Preventive Medicine	
Public Health	(205) 2	Public Health.....	(202) 2
Public Health Administration and Public Health Problems		Hygiene—Special	
Public Health	(207) 2	Public Health.....	(208) 2
Vital and Sanitary Statistics		Social Service and Public Health Nursing	
Public Health	(209) 3	Public Health	(210) 3
Communicable Diseases		Communicable Diseases	
Public Health	(211) 4	Public Health.....	(212) 4
Public Health Engineering		Public Health Engineering	
Public Health	(213) 3	Public Health	(216) 1
Public Health Laboratory and Inspection Methods		Seminary and Thesis	
		Public Health.....	(214) 3
		Public Health Laboratory and Inspection Methods	

Residence Requirement. A residence of one year wholly devoted to this work is required.

Date of Admission to Candidacy. A student must be admitted to candidacy not later than January 15 of the year in which the degree is sought.

Examination. Each candidate is required to pass a final examination upon all work included in his course of study. This examination is oral, but a supplementary written examination may be given at the option of the committee in charge of the course.

Thesis. A satisfactory thesis is required. The subject of the thesis, together with the written approval of the professor directing the work, must be filed with the Secretary of the Graduate Council not later than December 15 of the academic year in which the degree is sought. The completed manuscript ready for typewriting shall be submitted for correction and approval not later than 2 p. m. on the third Thursday before Commencement. The detail specifications for the typewriting and binding of the thesis may be obtained at the Editor's office. The thesis so prepared shall be presented for acceptance to the professor who has directed the work, before 4 p. m. on the Thursday preceding Commencement. If the thesis is then approved the student shall deposit it in duplicate with the University Editor not later than noon of the Friday before Commencement, and shall pay to the Editor a fee covering the cost of binding the same.

Degree. On the completion of the requirements of the curriculum in Public Health and Sanitation the degree, Master of Science will be conferred.

SCIENCE NURSING

GENERAL INFORMATION

The Science Nursing Curriculum offers preparation for women as supervising nurses, hospital superintendents, social service nurses, industrial nurses, and hospital dietitians. It enables the student to accomplish in five calendar years what would ordinarily require seven academic years.

The Science Nursing Curriculum is offered by the Ohio State University in coöperation with the Protestant Hospital Training School for Nurses. The work in this curriculum parallels closely the first three years of the curriculum in Home Economics and the Three-Year Curriculum in Nursing of the Protestant Hospital Training School for Nurses.

The proposed curriculum meets the requirements of the National League for Nursing Education, of the American Nurses Association, of the National Organization for Public Health Nursing, and the legal requirements of the state of Ohio. The graduates of this course will be eligible for admission to the State examination for the registration of nurses.

Upon the satisfactory completion of the work prescribed in the Ohio State University and the Protestant Hospital Training School for Nurses the student will be recommended for the degree of Bachelor of Science and a Diploma in Nursing.

ADMISSION

UNIVERSITY ENTRANCE BOARD

The admission of students is in charge of the University Entrance Board, which determines the credits which shall be issued on all entrance examinations and certificates, and furnishes all desired information to applicants. Correspondence relating to admission should be addressed to the Secretary of the Entrance Board, Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

To obtain full standing applicants under twenty-one years of age must have credit by examination for fifteen units or a certificate of graduation from a high school of the first grade.

Fifteen units from any first grade high school will be accepted, but it is expected that the following combination will be presented: three in English; four in foreign language; two in mathematics; one in physics; and four at large. Students who do not present these units will be required to carry courses in the University to make up the deficiency and this may delay their graduation.

CURRICULUM IN SCIENCE NURSING

FIRST YEAR

At the University

FIRST SEMESTER			SECOND SEMESTER		
Chemistry.....	(105) or (109)	4	Chemistry.....	(106) or (110)	4
English	(101)	2	English.....	(104)	2
Paragraph Writing			Paragraph Writing		
Anatomy.....	(101)	3	Anatomy	(116)	3
Elementary			Digestive System		
Psychology	(101)	3	Psychology.....	(102)	3
Elementary			Elementary		
English	(133)	3	English.....	(146)	3
Engineering Drawing.....	(127)	1½	Engineering Drawing	(128)	1½
Mechanical Drawing			House Planning		
Physical Education.....	(131)	1	Physical Education.....	(132)	1

SECOND YEAR

At the University

Chemistry	(127)	4	Agricultural Chemistry.....	(123)	4
Organic Chemistry			Household Chemistry		
Physiology.....	(101)	3	Physiology	(102)	3
Home Economics	(101)	5	Home Economics.....	(102)	5
Foods			Foods		
Bacteriology.....	(107)	4	Bacteriology	(108)	4
Physical Education.....	(133)	1	Physical Education.....	(134)	1

At the close of the second semester of the second year, the student will report immediately to the Protestant Hospital Training School for Nurses for the preliminary nursing period of twelve weeks.

SUMMER TERM

PRELIMINARY NURSING PERIOD

At Protestant Hospital

Science Nursing.....(101)	3
Elementary Nursing	
Science Nursing.....(102)	1
History and Ethics of Nursing	
Science Nursing.....(103)	1
Drugs and Solutions	
Science Nursing.....(104)	7
Hospital Ward Duty	

The preliminary nursing period requires twelve weeks of eight hours per day with approximately one lecture and seven hours of ward duty each day.

THIRD YEAR

FIRST SEMESTER

At the Protestant Hospital

Science Nursing.....(111)	2
Elements of Pathology	
Science Nursing.....(113)	2
Medical Nursing	
Science Nursing.....(115)	1
Surgical Nursing	
Science Nursing... ..(117)	1
Materia Medica	
Science Nursing.... ..(119)	10
Hospital Ward Duty	

SECOND SEMESTER

At the University

Agricultural Chemistry.....(124)	4
Household Chemistry	
Sociology.....(101)	3
Economics..... ..(120)	3
Public Health..... ..(124)	2
Public Health Problems	
Public Speaking .....(102)	2
Debating	
Science Nursing.....(122)	2
Pro-seminary in Case Studies	

At the close of the second semester of the third year, the student will report immediately to the Protestant Hospital Training School for Nurses for the second nursing period of eight week. A month's vacation will be arranged.

SUMMER TERM

SECOND NURSING PERIOD

At Protestant Hospital

Science Nursing	(123)	8
(Hospital Ward Duty)		

FOURTH YEAR

FIRST SEMESTER

At Protestant Hospital

SECOND SEMESTER

At the University

Science Nursing.....	(125)	1	Home Economics.....	(110)	4
Gynecological Nursing			Dietetics		
Science Nursing.....	(127)	1	Home Economics.....	(119)	3
Orthopedic Nursing			The House		
Science Nursing.....	(129)	2	Public Health.....	(106)	2
Obstetrical Nursing			Public Health Nursing		
Science Nursing.....	(131)	2	Public Health.....	(110)	2
Nursing in Diseases of Infants and Children			Preventive Medicine		
Science Nursing.....	(133)	2	Sociology.....	(112)	4
Nursing in Communicable Diseases			Preventive Philanthropy		
Science Nursing.....	(135)	1			
Nursing in Diseases of the Eye, Ear, Nose and Throat					
Science Nursing.....	(137)	1			
Operating Room Technic					
Science Nursing.....	(139)	6			
Hospital Ward Duty					

At the close of the second semester of the fourth year the student will report immediately to the Protestant Hospital Training School for Nurses for the third nursing period of eight weeks. A vacation will be arranged.

SUMMER TERM

THIRD NURSING PERIOD

At Protestant Hospital

Science Nursing.....	(141)	8
(Hospital Ward Duty)		

FIFTH YEAR

FIRST SEMESTER

SECOND SEMESTER

The work of these two semesters will be arranged between the Protestant Hospital Training School for Nurses and the University. The student will be permitted to make a selection of the field of nursing in which she wishes to specialize. The courses selected must aggregate not less than sixteen credit hours for each semester. Elective courses, divided into field and class-room work, will be arranged covering institutional nursing, private duty nursing and public health nursing. These courses will include hospital administration; hospital social service; nursing in mental and nervous diseases; nursing in skin, occupational and venereal diseases; nursing in diseases of infants and children; district nursing, school nursing, tuberculosis nursing and industrial nursing.

Degree—Upon the satisfactory completion of the work prescribed above the student will be granted the degree of Bachelor of Science and a Diploma in Nursing.

DEPARTMENTS OF INSTRUCTION

ANATOMY

- Embryology
- Gross Anatomy
- Histology
- Neurology
- Electives

PHYSIOLOGY

- Physiology—General and Special
- Chemical Physiology
- Pharmacology
- Electives

BACTERIOLOGY

- Medical Bacteriology
- Electives

PATHOLOGY

- Pathology—General and Special
- Clinical Pathology
- Electives

MATERIA MEDICA

- Materia Medica—General and Special
- Electives

PUBLIC HEALTH AND SANITATION

- Public Health and Sanitation
- Preventive Medicine
- Science Nursing

MEDICINE

- Dermatology
- General and Clinical Medicine
- Nervous and Mental Diseases
- Genito-Urinary Diseases
- Pediatrics
- Therapeutics

SURGERY

- Surgery—General and Clinical
- Surgery—Genito-Urinary
- Orthopedics
- Gynecology

SURGICAL SPECIALTIES

- Ophthalmology
- Otology, Rhino-Laryngology

OBSTETRICS

- Obstetrics

DEPARTMENTS OF INSTRUCTION

AGRICULTURAL CHEMISTRY

Office, 203 Townshend Hall

PROFESSORS VIVIAN AND LYMAN,
ASSISTANT PROFESSOR T. G. PHILLIPS

123-124. Household Chemistry. Four credit hours. The year. (123) Second year, second semester, Science Nursing; (124) third year, second semester. Prerequisite, Chemistry 106 or 110. Mr. Lyman, Mr. Phillips.

Lectures on household chemistry. Laboratory work consists of a brief introduction to quantitative analysis, followed by the analysis of foods and other materials of household interest.

ANATOMY

Office, 105 Biological Hall

PROFESSOR LANDACRE, ASSISTANT PROFESSORS BUCK AND
WARREN, MR. KNOUFF, MR. SMITH, MR. BAKER

101. Comparative Anatomy of the Vertebrates. Three to five credit hours. First semester. One recitation and five to eight laboratory hours each week. Not open to first year students. Second year, Science Nursing. Mr. Baker.

Fishes, amphibians and reptiles.

116. The Digestive System. Three credit hours. Second semester. One lecture and four laboratory hours each week. Elective for third or fourth year students. Prerequisite, one year's work in biological science. Second year, Science Nursing. Dr. Landacre, Dr. Buck, Dr. Warren.

A study of the gross and microscopic structure of the digestive system and associated organs in one of the higher mammals and in man.

121. Human Anatomy. Six credit hours. First semester. Three lectures or recitations, and eleven laboratory hours each week. Forty-eight didactic hours, 176 laboratory hours; total 224 hours. First year, Medicine. Dr. Buck and assistants.

Osteology, arthrology, syndesmology and myology.

122. Human Anatomy. Four credit hours. Second semester. Two lectures or recitations, and eight laboratory hours each week. Thirty-two didactic hours, 128 laboratory hours; total 160 hours. First year, Medicine. Dr. Buck and assistants.

Myology, angiology, splanchnology and peripheral nervous system.

127. Applied Human Anatomy. Three to five credit hours. First semester. Two recitations and three laboratory hours each week or three recitations and six laboratory hours each week. Thirty-two or forty-eight didactic hours and forty-eight or ninety-six laboratory hours; total 80 or 144 hours. Second year, Medicine. Three credit hours required, two additional hours elective. Prerequisite, Anatomy 121-122. Dr. Buck.

The application of gross anatomy to surgery, obstetrics and the surgical specialties.

133. Histology and Embryology. Six credit hours. First semester. Three lectures or recitations, and nine laboratory hours each week. An additional hour each week is devoted to the reports of original papers by instructors and students. Forty-eight didactic hours, 144 laboratory hours; total 192 hours. First year, Medicine. Dr. Landacre, Dr. Warren, Mr. Knouff.

The histogenesis and histology of the tissues; the histology and embryology of the circulatory, digestive, respiratory and muscular systems including the early stages of the mammalian embryos.

134. Histology and Embryology. Four credit hours. Second semester. Two recitations or lectures, and six laboratory hours each week. An additional hour each week is devoted to the reports of original papers by instructors and students. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. First year, Medicine. Dr. Landacre, Dr. Warren, Mr. Knouff.

The histology and embryology of the excretory and reproductive systems with a review of the whole subject of organogenesis.

136. Neurology. Four credit hours. Second semester. Two lectures or recitations, and six laboratory hours each week. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. First year, Medicine. Dr. Landacre, Dr. Warren, Dr. Buck, Mr. Knouff.

The gross and microscopic structures of the brain and spinal cord including those phases of the embryology of the central nervous system not covered in Anatomy 133-134.

103. Vertebrate Embryology. Three to five credit hours. First semester. Elective. One lecture or recitation, and five to eight laboratory hours each week. Prerequisite, one year in biological sciences, including Zoology 101. Dr. Landacre.

Karokinesis and the early development of fishes, amphibians and reptiles.

149. General Microscopic Technique. Three to five credit hours. Either semester. Elective. One lecture or conference each week, and five to eight laboratory hours. Prerequisite, one year's work in biology. Class limited to fifteen. Dr. Warren.

The preparation and study of tissues and organs by the ordinary technical methods.

150. Special Microscopic Technique. Three to five credit hours. Second semester. Elective. One lecture or conference, and five to eight laboratory hours each week. Prerequisite, Anatomy 149. Class limited to fifteen. Dr. Warren.

The preparation and study of tissues by the less common and more difficult kinds of technique.

152. Special Advanced Anatomy. Three credit hours. Second semester. Elective. Six laboratory hours and one conference each week. Hours to be arranged. Prerequisite, Anatomy 127 or its equivalent. Dr. Buck.

Students will select or have assigned to them special regions of the body for more extended study.

For graduate courses in this department see the Bulletin of the Graduate School.

BACTERIOLOGY

Office, 202 Veterinary Laboratory Building

PROFESSOR MORREY, ASSISTANT PROFESSOR STARIN, MR. FRONING,
MRS. MASTERS

107. General Bacteriology. Four or five credit hours. First semester. Second year, Science Nursing. Dr. Morrey, Mr. Froning, Mrs. Masters, and department assistants.

This course is a prerequisite to all the elective courses in the department and is designed to prepare for special work. The lectures consider the botanical relationship of bacteria, their morphology,

classification, effect of physical and chemical environment, action on food material, etc. The laboratory work includes preparation of the ordinary culture media and making of cultures on these media, staining methods, and some typical bio-chemical actions.

108. Pathogenic Bacteria. Two to five credit hours. Second semester. Prerequisite, Bacteriology 107. Second year, Science Nursing. Dr. Morrey, Mr. Froning, Mrs. Masters.

A study of the more important bacteria producing disease in man, including cultural and staining properties, methods of diagnosis, animal inoculation; also, in the lectures, ways of transmission and methods of protection against infectious disease; sanitation and the theories of immunity.

141. Medical Bacteriology. Six credit hours. First semester. Three lectures or quizzes, and nine laboratory hours each week. Forty-eight didactic hours, 144 laboratory hours; total 192 hours. Second year, Medicine. Dr. Morrey, Mr. Starin.

Morphology and physiology of bacteria in general. Practice on non-pathogenic bacteria to acquire facility in the preparation of culture media, staining and study of bio-chemical reactions. Detailed study of pathogenic bacteria with respect to morphology, staining and cultural characteristics and serum reactions. Bacteriological methods of diagnosis and of treatment.

117-118. Immunity and Serum Therapy. Two to five credit hours. The year. Elective. Prerequisite, Bacteriology 107 and 108 or equivalents. Mr. Starin.

Preparation of toxins, antitoxins, and vaccines and immune serums.

119-120. Pathogenic Protozoa. Two to five credit hours. The year. Elective. Prerequisite, Bacteriology 107 and 108 or equivalents. Mr. Starin.

125-126. Special Problems in Bacteriology. Three to five credit hours. The year. Elective. Conferences, library and laboratory work. Prerequisite, one year's work in bacteriology. Dr. Morrey.

CHEMISTRY

Office, 100 Chemistry Hall

PROFESSORS MCPHERSON AND EVANS, ASSISTANT PROFESSORS
BOORD AND OLIN, MR. YOUNG, MR. DAY,
AND DEPARTMENT ASSISTANTS

105. Elementary Chemistry. Four credit hours. First semester. First year, Science Nursing. Mr. Evans, Mr. Young, and department assistants.

A general course on the chemistry of the non-metals, arranged for students who have not presented chemistry as an entrance requirement. Students taking this course will follow with Chemistry 106, second semester.

106. Elementary Chemistry and Qualitative Analysis. Four credit hours. Second semester. Prerequisite, Chemistry 105. First year, Science Nursing. Mr. Evans, Mr. Young, and department assistants.

A general course on the chemistry of the metals. The laboratory work accompanying is a general introductory course in qualitative analysis.

109. General Chemistry. Four credit hours. First semester. First year, Science Nursing. Mr. Evans, Mr. Young and department assistants.

A general course on the chemistry of the non-metals. It is more advanced than Chemistry 105 and is arranged for students who have had an acceptable course in elementary chemistry in a secondary school. Students taking this course will follow with Chemistry 110, second semester.

110. General Chemistry and Qualitative Analysis. Four credit hours. Second semester. Prerequisite, Chemistry 109. First year, Science Nursing. Mr. Evans, Mr. Young, and department assistants.

A general course on the chemistry of the metals. It is more advanced than Chemistry 106. The laboratory work is a general course in qualitative analysis.

127. Organic Chemistry. Four credit hours. First semester. Three lectures and one quiz each week. Prerequisite, an acceptable course in general chemistry. Second year, Science Nursing. Mr. Boord.

This is a general introductory course in organic chemistry.

DISPENSARY CLINICS

103-104. Dispensary Clinics. Two credit hours. The year. Fourth year, Medicine. Medicine, Pediatrics, Dermatology, Nervous Diseases, Genito-Urinary Diseases, Surgery, Gynecology, Eye, Ear, Nose, and Throat.

Medicine: Dr. Hayhurst, Dr. Gordon, Dr. Hatfield, Dr. Leist, Dr. Barnes, Dr. Sheetz.

Pediatrics: Dr. Horton, Dr. Ramsey, Dr. Edelman.

Dermatology: Dr. C. J. Shepard.

Nervous Diseases: Dr. Haines, Dr. Wagenhals.

Genito-Urinary Diseases: Dr. Baldwin, Dr. Bratton, Dr. Shawaker, Dr. Taylor.

Surgery: Dr. Dodd, Dr. Means, Dr. Wilson, Dr. Hamilton, Dr. Bigelow, Dr. Zartman, Dr. Freese, Dr. Reel.

Gynecology: Dr. Fletcher, Dr. Gallen, Dr. Stanton.

Eye: Dr. Schaeffer, Dr. Clark, Dr. Prout, Dr. Alcorn.

Ear, Nose, and Throat: Dr. Beatty, Dr. Hauer, Dr. Prout, Dr. Hodges, Dr. Williams.

ECONOMICS AND SOCIOLOGY

Office, 5 Page Hall

PROFESSOR HAGERTY, MISS MARK

ECONOMICS

120. The Household. Three credit hours. Second semester. Prerequisite or concurrent, Sociology 101-102 or Economics 101-102. Third Year, Science Nursing. Miss Mark.

The family as an economic institution. The evolution of household industries and its effect upon the home. Organization of the household with reference to the functions of man and woman.

SOCIOLOGY

101. Principles of Sociology. Three credit hours. Second semester. Third Year, Science Nursing. Mr. Hagerty, Miss Mark.

A study of the fundamental principles of sociology. Text-book, lectures, collateral reading and individual investigation.

112. Preventive Philanthropy. Four credit hours. Second semester. Third year, Science Nursing. Mr. Hagerty.

A study of the institutions and methods for the promotion of thrift and good citizenship. Tenement house and child labor legislation, industrial education, social settlements, welfare work, parks and playgrounds, substitutes for the saloon, amusements, sanitation, civic improvements, etc.

ENGINEERING DRAWING

Office, 204 Brown Hall

PROFESSOR FRENCH

127. Mechanical Drawing. One and one-half credit hours. First semester. First year, Science Nursing.

Elementary mechanical and architectural drawing.

128. House Planning. One and one-half credit hours. Second semester. Prerequisite, Engineering Drawing 127. First year, Science Nursing.

ENGLISH

Office, 103 Physics Building

PROFESSORS DENNEY, TAYLOR, GRAVES, AND KETCHAM, ASSISTANT
PROFESSORS BECK, ANDREWS, AND PERCIVAL, MR. EICH,
AND DEPARTMENT ASSISTANTS

101. Paragraph Writing: Description and Narration. Two credit hours. First semester. First year, Science Nursing. Mr. Beck and assistants.

104. Paragraph Writing: Exposition and Argumentation. Two credit hours. Second semester. Prerequisite, English 101. First year, Science Nursing. Mr. Beck and assistants.

133. Introduction to American Literature. Three credit hours. First semester. No prerequisite course. First year, Science Nursing. Mr. Taylor, Mr. Graves, Mr. Andrews.

The outline of the history will be given by lecture. The reading and criticism will be of Irving, Cooper, Bryant and Poe; of Hawthorne, Emerson, Whittier, Longfellow and Lowell; and of Walt Whitman; with a brief survey of recent literature.

146. Nineteenth Century Prose. Three credit hours. Second semester. No prerequisite course. First year, Science Nursing. Mr. Denney, Mr. Graves, Mr. Beck, Mr. Percival.

Reading in Arnold, Ruskin, Newman, Pater, Stevenson, and in recent and contemporary essayists.

PUBLIC SPEAKING

102. Debating. Two credit hours. Second semester. Prerequisite, English 101, 104. Third year, Science Nursing. Mr. Ketcham, Mr. Eich.

Practice in making and presenting oral arguments. The theory and practice of argumentation and debate. Short class debates on subjects of current interest.

HOME ECONOMICS

Office, 120 Home Economics Building

PROFESSOR WHITE, MRS. WALKER, MISS SKINNER,
AND DEPARTMENT ASSISTANTS

101-102. Foods. Five credit hours. The year. Two lectures, one quiz, and two laboratory periods each week. Prerequisite, Chemistry 106 or 110. Second year, Science Nursing. Miss White, Miss Skinner.

A study of the principles involved in the selection and preparation of foods; the occurrence, cost and value of the nutrients in the various food materials.

110. Dietetics. Four credit hours. Second semester. Two lectures and two laboratory periods each week. Prerequisites, Home Economics 101-102, Physiology 101-102, Agricultural Chemistry 123-124. Fourth year, Science Nursing. Miss Skinner.

A study of the chemical, physiological and economic factors entering into the normal diet. Examination of dietary standards. Some attention to abnormal diet is given. Translation of standard dietaries into food materials and some exercises in making dietary studies and in preparing food for the sick.

119. The House. Three credit hours. Second semester. Three lectures each week. Fourth year, Science Nursing. Mrs. Walker.

A study of the organization and management of the household with a view to securing the maximum of family welfare. Time is given to a consideration of the problems of expenditures through study of relative values, examination of budgets, and discussion of some of the factors influencing choice.

125-126. Survey of Home Economics. Three credit hours. The year. One lecture and two laboratory periods each week. Public Health Nursing. Miss White.

Principles of the selection and preparation of normal low cost dietaries, marketing, feeding of infants and invalids, house sanitation, household management, economic and hygienic aspects of textiles and clothing.

MATERIA MEDICA

PROFESSOR DYE

131. Materia Medica. Two credit hours. First semester. Two lectures each week. Thirty-two didactic hours; total 32 hours. First year, Medicine. Dr. Dye.

A systematic and detailed study of the various drugs used in medicine.

132. Materia Medica. Three credit hours. Second semester. One lecture, and four laboratory hours each week. Thirty-two didactic hours, 48 laboratory hours; total 80 hours. Second year, Medicine. Dr. Dye and assistants.

A laboratory course in which instruction is given in the identification, dosage, characteristics and properties of vegetable and chemical drugs. The course also includes the fundamental principles in prescription writing.

MEDICINE AND CLINICAL MEDICINE

Office, 710 North Park Street

PROFESSORS——, UPHAM AND HAINES, ASSISTANT PROFESSORS
BLAKEY, COONS, HORTON, C. J. SHEPARD, GORDON, AND
HATFIELD, DR. RAMSEY, DR. LEIST, DR. BRATTON,
DR. HINDMAN, DR. SHEETZ, DR. WAGENHALS,
DR. BARNES, DR. EDELMAN

101-102. Medicine, General and Clinical. Five credit hours. The year. Four lectures and recitations, and two conference clinics

each week throughout the year. Total 224 hours. Third year, Medicine. Dr. Blakey, Dr. Coons, Dr. Gordon, Dr. Ramsey, Dr. Hatfield.

The field of medicine is covered as given in the standard textbooks. The conference clinics are given at St. Francis and Protestant Hospitals. Patients from the wards illustrating as far as possible the diseases discussed in the didactic lectures and quizzes, are exhibited and examined, and demonstrations are made of the application of the methods of physical diagnosis.

104. Physical Diagnosis. Two credit hours. Second semester. Total 48 hours. Second year, Medicine. Dr. McCampbell.

Lectures, demonstrations and practical exercises showing the methods of physical examination and outlining of organs on normal subjects.

106. Nervous Diseases. Two credit hours. First semester. Two recitations each week. Total 32 hours. Third year, Medicine. Dr. Haines, Dr. Wagenhals.

The methods of neurological examinations. The clinical procedures in locating lesions of the brain and spinal cord and ascertaining the nature of these lesions. The diagnosis also of nervous disorders which do not seemingly depend upon structural changes in the nervous system—functional disorders. Treatment of nervous diseases and psycho-neurosis. The medical clinics and hospital conferences will frequently bring opportunities to the student for making examinations and diagnoses in nervous disorders.

108. Dermatology. Two credit hours. Second semester. Total 32 hours. Third year, Medicine. Dr. Shepard.

The various diseases of the skin, its constituent parts and appendages. The didactic instruction is supplemented by exhibition of cases showing the various skin lesions. These cases come from the hospitals and out-door dispensaries. Lantern slides are used where they exemplify the lesions under consideration to an advantage.

126. Genito-Urinary Diseases. Two credit hours. Second semester. Total 32 hours. Third year, Medicine. Dr. Bratton.

Lectures and demonstrations on the pathology, diagnosis and treatment of diseases of the genito-urinary organs. The didactic work is supplemented by practical demonstrations in the dispensary.

113-114. Medicine, General and Clinical. Two credit hours. The year. One hour lecture or quiz on special subjects in medicine, and

two conference clinics each week. Total 128 hours. Fourth year, Medicine. Dr. Upham, Dr. Haines, Dr. Shepard, Dr. Bratton.

The conference clinics are held in Protestant, St. Francis and Children's Hospitals, and consist in the exhibition of illustrative cases of disease and demonstration of the methods of physical and clinical diagnosis.

118. Psychiatry. One credit hour. Second semester. Three hours each week. Total 16 hours. Fourth year, Medicine. Dr. Haines, Dr. Wagenhals.

Lectures, recitations, and clinics on the mental and physical characteristics of patients suffering from the best known types of mental diseases. Training in the differential diagnosis of the leading psychoses, and the psycho-neuroses. The mental mechanisms of various insanities, character defects, and feeble-mindedness. Mental hygiene as a department of preventive medicine.

121. Pediatrics, Didactic and Clinical. Two credit hours. First semester. Total 64 hours. Fourth year, Medicine. Dr. Horton.

Lectures and recitations with clinical conferences each week. The physical characteristics of the child, the dietary requirements of infancy, the proper hygiene for normal development and the diseases peculiar to childhood.

122. Pediatrics, Clinical Conference. One credit hour. Second semester. Total 48 hours. Fourth year, Medicine. Dr. Horton.

The conference clinics are conducted in the Protestant Hospital, and consist in the exhibition of patients and the practical demonstration of the various diseases of childhood and their treatment.

HOSPITAL

PROFESSORS UPHAM AND HAINES, ASSISTANT PROFESSORS HORTON, HAYHURST, SHEPARD, COONS, BLAKEY, GORDON, AND HATFIELD, DR. RAMSEY, DR. LEIST, DR. HINDMAN, DR. SHEETZ, DR. SHAWAKER, DR. BARNES

101-102. Hospital Ward Clinics in Medicine. Two credit hours. The year. Total 192 hours. Fourth year, Medicine.

Four forenoons from 9 to 12 each week in St. Francis, Protestant and Children's Hospitals. Bedside instruction in medicine is given to the students, in small sections; the members of these sections are re-

quired to write case histories, make routine physical and clinical examinations of cases assigned to them. The histories written by the students are used as means of instruction in the conference clinics.

The class is divided into six sections—one in medicine and one in surgery at each hospital. The sections are rotated every three weeks. Instructional work in the surgical specialties is given in the surgical sections and in the medical specialties in the medical sections.

OBSTETRICS

Office, 710 North Park Street

PROFESSOR ROGERS, DR. HADLEY, DR. BREHM

102. Obstetrics. Two credit hours. Second semester. One lecture each week, and two hours recitation and manikin exercise each week. Sixteen didactic hours, 32 laboratory hours; total 48 hours. Third year, Medicine. Dr. Rogers.

Review of the anatomy and physiology of the female organs of reproduction, the development of the ovum, the physiology and diagnosis of pregnancy, the mechanism and management of normal labor, of the deflexion presentations and of breach presentations, the puerperium and the care of the new-born child.

105. Obstetrics. Two credit hours. First semester. One lecture each week and two hours demonstration and manikin review. Sixteen didactic hours, 32 laboratory hours; total 48 hours. Fourth year, Medicine. Dr. Hadley, Dr. Brehm.

Abnormal labor, induced labor, version, forceps and operative obstetrics.

106. Obstetrics. Three credit hours. Second semester. One lecture each week and two hours demonstration and manikin review. Sixteen didactic hours, 32 laboratory hours; total 48 hours. Fourth year, Medicine. Dr. Rogers, Dr. Hadley, Dr. Brehm.

Six conductions required from each student—no required number of hours, though in no series of cases will the time be less than sixty hours.

The pathology of pregnancy, labor and the puerperium. In addition to the confinement cases required, the conduction of which will be in the maternity department of the Protestant Hospital, the Rescue

Home and at the homes of patients, each student will be required to apply the mother's breast binder and dressings and to properly bathe and clothe an infant, in the maternity department of the Protestant Hospital. He will also be required to make rounds with the staff in the maternity wards and nursery and to acquire a working knowledge of their routine.

OPHTHALMOLOGY AND OTO-LARYNGOLOGY

Office, 710 North Park Street

PROFESSORS BROWN AND TIMBERMAN, DR. SCHAEFFER,
DR. BEATTY, DR. PROUT, DR. HAUER, DR. CLARK,
DR. ALCORN, DR. WILLIAMS, DR. HODGES

101. Ophthalmology. Two credit hours. First semester. Two lectures or demonstrations each week. Thirty-two didactic hours. Third year, Medicine. Dr. Timberman.

The anatomy of the eye, physiology of vision, refraction and practice. Special emphasis is laid upon the external diseases of the eye, upon the diagnosis of internal disease and the relation of this organ to general disease. The course is supplemented by clinical work in the dispensary. The teaching service in the senior year is entirely clinical. Section teaching is carried out in the clinics, at the hospitals and dispensaries. Abundant exercise in practical refraction is given each section. Opportunity is afforded the class for a visit to the Ohio State School for the Blind, located in Columbus, to witness demonstration of cases.

105. Oto-Laryngology. Two credit hours. First semester. Two lectures or quizzes each week. Thirty-two didactic hours. Third year, Medicine. Dr. Brown.

The class-room work is supplemented by clinics at the Park Street and State Street Dispensaries. This field furnishes abundant operative material for hospital cases as well as ambulatory patients for dispensary treatment. The use of instruments, the technique of examination and treatment are practically taught. Anatomical preparations are used for accessory demonstrations and the students are required to report upon patients examined. The class is given demonstrations of ear diseases in the Ohio State School for the Deaf, located in Columbus.

PATHOLOGY

Office, 710 North Park Street

PROFESSORS SCOTT AND SPOHR, ASSISTANT PROFESSOR
FORMAN, DR. HUGGER

109. Pathology. Seven credit hours. Second semester. Three lectures, and thirteen laboratory hours each week. Total 256 hours. Second year, Medicine. Prerequisite, Anatomy 133-134. Dr. Scott, Dr. Forman, Dr. Hugger.

A review of normal cytology, the study of the retrogressive, inflammatory and regenerative lesions of the organs, tumors and parasite infections.

103. Surgical Pathology. Two credit hours. Second semester. One lecture, and two laboratory hours each week. Total 48 hours. Fourth year, Medicine. Optional with Pathology 104. Dr. Forman, Dr. Dodd, Dr. J. W. Means.

A laboratory course correlating the gross and microscopical pathology of operative specimens with the symptomatology.

107. Demonstrations of Necropsies. Second, third, and fourth years, Medicine. Dr. Scott.

Each student is required to attend and write complete protocols of at least seven necropsies.

119. Clinical Pathology. Two credit hours. First semester. One lecture, and three laboratory hours each week. Total 64 hours. Third year, Medicine. Dr. Spohr.

The study of the blood, covering cell changes, ferment reactions, compliment fixation tests, phenomena of anaphylaxis, the preparation of the bacterial vaccines; the examination of urine, feces and stomach contents, sputum, spinal fluid and the various exudates.

120. Clinical Pathology. One credit hour. Second semester. Three laboratory hours each week. Total 48 hours. Third year, Medicine. Dr. Spohr.

A continuation of Pathology 119.

127-128. Advanced Pathology. Three to five credit hours. The year. Elective. Prerequisite, Pathology 109 and Bacteriology 141. Dr. Scott, Dr. Forman.

Autopsy technique, including a study of the tissues and culture resulting from post-mortem examinations.

133-134. Advanced Special Pathology. Three to five credit hours. The year. Elective. Prerequisite, Pathology 115-116 and 117-118. Dr. Scott, Dr. Forman.

A detailed study of the histological and experimental pathology of special organs and tissues.

137-138. Seminary. One credit hour. The year. Dr. Scott.

139-140. Experimental Pathology. Three to five credit hours. The year. Elective. Prerequisite, Pathology 115-116 and 117-118. Dr. Spohr.

Experimental infections and immunity as applied to medicine.

129-130. Neuropathology. One credit hour. The year. Elective. Dr. Scott.

The pathological and the experimentally produced lesions of the nervous system.

104. Medical Pathology. Two credit hours. Second semester. One lecture, and two laboratory hours each week. Total 48 hours. Optional with Pathology 103. Prerequisite, Pathology 119-120. Fourth year, Medicine. Dr. Scott, Dr. Forman.

A laboratory course correlating the gross and microscopical pathology of specimens obtained at necropsies with the symptomatology.

143. Advanced Clinical Pathology. Three credit hours. Elective. Prerequisite, Pathology 119-120. Dr. Spohr.

Materials collected in the wards and out-patient department.

For graduate courses in this department see the Bulletin of the Graduate School.

PHYSICAL EDUCATION

Office, The Gymnasium

ASSISTANT PROFESSOR MEYER, MISS HAMMETT

131-132. Physical Education. One credit hour. The year. Four hours each week. Required of all women students during the first year of attendance at the University. Science Nursing Curriculum, First year.

Lectures on personal hygiene.

Gymnasium Exercises: Elementary Swedish gymnastics, calisthenics, drills with wands, Indian clubs, etc. Folk dances, technique of esthetic dancing, and gymnastic games.

Recreative games and sports.

133-134. Physical Education. One credit hour. The year. Four hours each week. For second year students; required of all women students. Science Nursing Curriculum, Second year.

Lectures on the principles of physical education.

Gymnasium Exercises: A continuation of Physical Education 131-132.

PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY

Office, 104 Biological Hall

PROFESSORS BROOKS AND BLEILE, ASSISTANT PROFESSORS MCPEEK
AND SEYMOUR, MR. DURRANT, MR. REED

101-102. Physiology. Three credit hours. The year. Not open to freshmen. Must be preceded by a course in chemistry. Second year, Science Nursing. Dr. Bleile, Dr. Seymour, Mr. Durrant, Mr. Reed.

A foundation course in the fundamental principles of animal physiology with applications to the human body, including demonstrations in circulation, digestion, respiration, gross and minute anatomy, reflex action, and other simple phenomena of living organisms.

121. Medical Physiology. Five credit hours. First semester. Three recitations or lectures, and eight laboratory hours each week. Thirty-two didactic hours, 144 laboratory hours; total 176 hours. Second year, Medicine. Dr. Brooks, Mr. Reed and assistants.

The physiology of muscle and nerve, central nervous system, autonomic system, internal and external senses, blood and heart. An additional hour each week is devoted to reports or original papers by instructors and students.

122. Medical Physiology. Five credit hours. Second semester. Three recitations or lectures, and six laboratory hours each week. Thirty-two didactic hours, 144 laboratory hours; total 176 hours. Prerequisite, Physiology 121. Dr. Brooks, Dr. McPeck, Mr. Reed.

The physiology of the circulatory and respiratory mechanisms, digestion excretory structures, endocrinous glands, metabolism and reproductive organs. One hour each week additional is devoted to the reports of papers by instructors and students.

123. Bio-Chemistry. Four credit hours. First semester. Two lectures, and six laboratory hours each week. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. First year, Medicine. Prerequisite, an acceptable course in organic chemistry. Dr. Brooks, Dr. Seymour.

A study of carbohydrates, fats, and proteins in their relation to the cell including a study of digestion, metabolism, animal fluids, enzymes, secretions, and excretions in their normal condition with frequent references to pathologic variations.

130. Pharmacology. Four credit hours. Second semester. Two lectures, and six laboratory hours each week. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. Second year, Medicine. Prerequisite, Physiology 123, except on permission of the instructor. Dr. Brooks, Dr. McPeck and assistants.

A general review of vegetable and chemical substances together with the study of the physiological action of drugs in groups, with experiments on absorption, elimination, fate of drugs in the body, their relation to emesis, catharsis, peristalsis and diuresis.

For graduate courses in this department see the Bulletin of the Graduate School.

PSYCHOLOGY

Office, 403 University Hall

PROFESSORS ARPS AND PINTNER, ASSISTANT PROFESSORS WEISS AND BRIDGES, MR. EVANS, MR. CRANE, MISS GOUDGE, MISS COY, MISS BOWLER AND DEPARTMENT ASSISTANTS

101-102. Elementary Psychology. Introductory course. Three credit hours. The year. First year, Science Nursing. All instructors.

PUBLIC HEALTH AND SANITATION

PROFESSOR MCCAMPBELL, ASSISTANT PROFESSORS HAYHURST AND PATERSON, MR. VAN BUSKIRK

101. Public Health Administration. Two credit hours. First semester. Two lectures or recitations each week. Total 32 hours. Dr. McCampbell.

The organization of national, state and local health departments, sanitary law and legal powers and responsibilities of health officers and boards of health. The place of the public health nurse in public health administration.

110. Preventive Medicine. Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours. Dr. McCampbell.

The important facts and fundamental principals in preventive medicine are given consideration. The sociological aspects and the methods used in public health work are emphasized. Special attention will be given to the methods and procedures for preventing the occurrence of the communicable diseases as well as the control of this group of diseases. The non-infectious diseases will also be discussed from the standpoint of preventive medicine and the public health.

103-104. Medico-Social Work. Two credit hours. The year. Two lectures or recitations each week. Total 64 hours. Dr. Paterson.

A survey of the theories and institutions for medical relief from the earliest times to the French and American Revolutions, with a study in detail of the early history of medico-social work in the United States will be given in the beginning of the course. The greater part of the course consists of a close study of the modern agencies for medico-social service.

105-106. Public Health Nursing. Two credit hours. The year. Two lectures or recitations each week. Total 64 hours.

This course takes up the historical development of nursing, the organization of the professional field, and the place of nursing in its relation to the various forms of medico-social and public service. It discusses the best methods of administration as to the supervision and arrangement of practical work, classification and preservation of records and the presentation and publication of reports. This course is intended also to give a general grasp of the problems in nursing to be met in families where there is sickness with poverty; the measures to be followed in various types of families, to preserve unity, to relieve immediate needs and to teach hygiene, preventive methods and the handling in the home of acute, chronic or contagious illness. The special problems of nursing in medico-social service, industrial welfare and rural districts are considered.

123. Public Health Problems. Two credit hours. First semester. Two lectures or recitations each week. Total 32 hours. Dr. McCampbell, Dr. Paterson.

This course includes an elementary consideration of the various public health problems which present themselves. Consideration is given the question of the prevention of unnecessary infant mortality, the physical supervision of school children, the provision and the protection of the public water and food supplies, the proper elimination of waste, the sociological aspects of public health work, including especially the question of the elimination of tuberculosis. Limited instruction is given on the matter of quarantine regulations, disinfection, and in the control of communicable diseases.

124. Public Health Problems. Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours. Dr. McCampbell, Dr. Hayhurst.

This course covers in a rapid survey the health hazards of industrial applications and the accepted standards in regard to the individual and to his environments. Occupational diseases and those diseases partly occupational are considered in their various relations. The principles of sanitary engineering science, municipal sanitation, and the methods used in the public health laboratory are also covered in this course.

115. Preventive Medicine. Two credit hours. First semester. Two recitations and demonstrations each week. Total 32 hours. Fourth year, Medicine. Dr. McCampbell.

The channels of infection, public health law and quarantine procedure; immunity, heredity, eugenics as applied to preventive medicine; protection of the food supply; public water supplies and sanitary analysis of water; sewerage and refuse disposal, industrial hygiene and occupational diseases and disinfection.

107-108. Medico-Social Field Work. Three credit hours. The year. One lecture or recitation and six laboratory hours each week. Total 224 hours. Dr. Paterson.

A study is made of the work of various nursing and medico-social service organizations. Hospital and dispensary social service work. The time and assignments for each student will be arranged individually by the instructor. The field work will be intimately correlated with the dispensaries and hospitals under the control of the University.

112. Personal Hygiene. Three credit hours. Second semester. Elective. Three lectures or recitations each week. Forty-eight didactic hours. First year, Medicine. Dr. Hayhurst.

Component systems of the human body are considered from the point of view of their functions, toleration and adaptation limits, habit effects, normal and abnormal states, with signs and indications thereof, common diseases with their prophylaxes, and the principals of emergency treatments.

SCIENCE NURSING

101. Elementary Nursing. Three credit hours. Summer term following second year of Science Nursing Curriculum. Three lectures each week. Total 36 hours. Prerequisite, first two years of Science Nursing Curriculum or its equivalent.

Personal hygiene; charts and charting; reception of patients; preparation of patients' rooms; the care and use of equipment; the care, use and preparation of instruments; the care and handling of patients; bandaging and massage.

102. History and Ethics of Nursing. One credit hour. Summer term following second year of Science Nursing Curriculum. One lecture each week. Total 12 hours. Prerequisite, first two years of Science Nursing Curriculum or its equivalent.

Definition; professional ethics; hospital ethics and etiquette; the school uniform; the social life of the student; required reading; the spirit of nursing; and a brief history of nursing.

103. Drugs and Solutions. One credit hour. Summer term following second year of Science Nursing Curriculum. One lecture each week. Total 12 hours. Prerequisite, first two years of Science Nursing Curriculum.

Elementary discussion of drugs, their sources, crude forms, and preparation; practical problems in weights and measures; and the preparation of solutions.

104. Hospital Ward Duty. Seven credit hours. Summer term following second year of Science Nursing Curriculum. Seven hours of hospital ward duty each day for six days each week. Total 504 hours. Prerequisite, first two years of Science Nursing Curriculum or its equivalent.

The student will serve as a probationer in the wards of the Protestant Hospital.

111. Elements of Pathology. Two credit hours. First semester. Two lectures each week. Total 32 hours. Third year, Science Nursing. Prerequisite, first two years of Science Nursing Curriculum and preliminary nursing period.

A lecture course covering the elementary principles; retrogressive, inflammatory and regenerative reactions of the tissues and the effects of special infectious agents upon the body; tumors.

113. Medical Nursing. Two credit hours. First semester. Two lectures each week. Total 32 hours. Third year, Science Nursing. Prerequisite, first two years of Science Nursing Curriculum and preliminary nursing period.

Hygiene of the sick-room, diseases of the blood, of organs of circulation and lymphatics, of organs of respiration, of digestion and of excretion.

115. Surgical Nursing. One credit hour. First semester. One lecture each week. Total 16 hours. Third year, Science Nursing. Prerequisite, first two years of Science Nursing Curriculum and preliminary nursing period.

Principles of septic and anti-septic surgery; fractures; surgical emergencies; pre-operative considerations; post-operative considerations; surgical tuberculosis; tumors; surgical conditions of the head; neck, chest, stomach, gall bladder, intestines, kidney and bladder, and fistulae and plastic surgery.

117. Materia Medica. One credit hour. First semester. One lecture each week. Total 16 hours. Third year, Science Nursing. Prerequisite, first two years and preliminary nursing period of the Science Nursing Curriculum.

Drugs, systems of measurement, the care and use of equipment, administration, solutions; important drugs; the medicine closet.

119. Hospital Ward Duty. Ten credit hours. First semester. Seven hours each day; six days each week. Total 672 hours. Third year, Science Nursing. Prerequisite, first two years and preliminary nursing period of Science Nursing Curriculum.

A student performs the duties of a nurse in training in the wards of the Protestant Hospital.

122. Pro-seminary in Case Studies. Two credit hours. Second semester. Two conferences each week. Total 32 hours. Third year,

Science Nursing. Prerequisite, first two years and preliminary nursing period of the Science Nursing Curriculum.

Assignment to each student of at least six cases embracing medical, surgical, obstetrical, and pediatrical nursing for complete study and the submission of written reports as the basis for class discussion.

123. Hospital Ward Duty. Eight credit hours. Summer term following third year of Science Nursing Curriculum. Eight hours each day; six days each week for eight weeks. Total 384 hours. Prerequisite, first three years of Science Nursing Curriculum.

The student performs the duties of a nurse in the wards of the Protestant Hospital.

125. Gynecological Nursing. One credit hour. First semester. One lecture each week. Total 16 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

Definition and brief history of gynecology; diseases of reproductive organs; of the genito-urinary tract; examinations and gynecological operations.

127. Orthopedic Nursing. One credit hour. First semester. One lecture each week. Total 16 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

Definition; deformities, apparatus used in orthopedic work; care of patients in plaster casts and braces; orthopedic operations.

129. Obstetrical Nursing. Two credit hours. First semester. One lecture and one demonstration each week. Total 32 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

Mechanism and management of normal labor; after-care of the mother; care and artificial feeding of the new-born infant; physiology and hygiene of pregnancy; pathological pregnancy.

131. Nursing in Diseases of Infants and Children. Two credit hours. First semester. Two lectures each week. Total 32 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

The normal child; nursing of sick children; diseases of digestive, respiratory, circulatory, nervous and genito-urinary systems; diseases of the blood and lymphatic glands; surgical conditions in children; social aspects of children's diseases.

133. Nursing in Communicable Diseases. Two credit hours. First semester. Two lectures each week. Total 32 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

Specific infectious diseases; the conduct of a case of communicable disease; diphtheria, cerebrospinal meningitis, acute poliomyelitis, lobar pneumonia, influenza, common colds, follicular tonsillitis, tuberculosis, scarlet fever, measles, chicken pox, whooping cough, mumps, gonococco-vaginitis, syphilis, gonorrhea, erysipelas, small-pox and typhoid fever.

135. Nursing in Diseases of the Eye, Ear, Nose and Throat. One credit hour. First semester. One lecture each week. Total 16 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

Anatomy and physiology of the head with special reference to the eye, ear, nose and throat; special diseases; methods of examination; methods of treatment; operations, solutions strength and uses.

137. Operating Room Technic. One credit hour. First semester. One lecture or demonstration each week. Total 16 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

The operating room; instruments and supplies; preparation for operation; local preparation of patient for operation; and preparation and duties of the nurse.

139. Hospital Ward Duty. Six credit hours. First semester. Four ward duty hours each day; twenty-four each week. Total 402 hours. Fourth year, Science Nursing. Prerequisite, first three years of Science Nursing Curriculum.

The student will perform the duties, in the wards of the Protestant Hospital, of a nurse in training.

141. Hospital Ward Duty. Eight credit hours. Summer term following fourth year of Science Nursing Curriculum. Eight hours each day; six days each week for eight weeks. Total 384 hours. Prerequisite, first four years of Science Nursing Curriculum.

The student will perform the duties of a nurse in training in the wards of the Protestant Hospital.

GRADUATE WORK

201. Hygiene. Two credit hours. First semester. Two lectures or recitations each week. Total 32 hours. Dr. Hayhurst.

Exercise, fatigue, rest, bathing, clothing, diet, operation, and care of the human mechanism.

202. Hygiene-Special. Two credit hours. Second semester. Dr. Hayhurst.

Industrial hygiene, including occupational accidents, industrial poisonings, health hazards in connection with various industries. Inspection trips.

Mental hygiene, prophylaxis, relation of acute infectious diseases, alcoholism, mental tests. Inspection trips.

204. Preventive Medicine. Two credit hours. Second semester. Dr. McCampbell.

The important facts and principles in preventive medicine and the sociological aspects and methods of public health.

Special problems, venereal prophylaxis, ocular hygiene, oral prophylaxis, diseases of the ear and nose.

205. Public Health Administration and the Public Health Problems. Two credit hours. First semester. Dr. McCampbell.

Efficiency of public health measures, organization of national state, and local health departments, sanitary law and legal powers, and responsibilities of health officers. Current problems in hygiene and sanitation.

207. Vital and Sanitary Statistics. Two credit hours. First semester. Two lectures or recitations each week. Total 32 hours. Dr. Paterson.

Vital, social and sanitary statistics.

208. Social Service and Public Health Nursing. Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours.

Preventable diseases discussed from their social aspects. Relation between social science and preventive medicine. Existing agencies and principles involved in dealing with medico-sociological problems.

History of nursing, organization and principles underlying public health nursing with particular reference to Ohio.

209-210. Communicable Diseases. Three credit hours. The year. Dr. McCampbell.

Clinical study and administrative control of the more common communicable diseases. Visits to the hospitals and laboratories.

211-212. Public Health Engineering. Four credit hours. The year. Mr. Van Buskirk.

Principles of sanitary engineering and municipal sanitation. Public water supplies and water purification, pollution of streams, methods of sewage and garbage disposal, street cleaning, hygienic housing, plumbing, ventilation and the effect of unsanitary conditions on the public health. Inspection trips.

213-214. Public Health Laboratory and Inspection Methods. Three credit hours. The year. Mr. Van Buskirk.

Methods and examinations employed in diagnosis of communicable diseases, water, food and drug analyses and inspection of meat, milk and food products.

216. Seminary and Thesis. One credit hour each week. Second semester. Dr. McCampbell.

Public sanitation problems.

SURGERY

Office, 710 North Park Street

PROFESSOR WARDLOW, ASSISTANT PROFESSORS DODD,

HARRIS, BIGELOW, HAMILTON, FLETCHER, AND

STEINFELD, DR. ZARTMAN, DR. BALDWIN,

DR. J. W. MEANS, DR. WILSON, DR.

FREESE, DR. H. J. MEANS, DR.

LUDWIG, DR. REEL

104. Minor Surgery. Two credit hours. First semester. Two lectures each week. Total 32 hours. Second year, Medicine. Dr. Freese, Dr. Wilson.

Fundamental instruction in the theory and practice of asepsis and antisepsis; the preparation of ligatures, sutures and materials for surgical dressings; surgical instruments and their use; hemorrhage; shock; protoclalysis; hypodermoclalysis; transfusion and infusion; aspirations; tapping; splints; bandaging and anesthetics.

101-102. General Surgery. Five credit hours. The year. Four hours recitation and quiz, three hours conference clinics. One hundred and twenty-eight class hours, 96 clinic hours; total 224 hours. Third year, Medicine. Prerequisite, Anatomy 127, three hours. Dr. Bigelow, Dr. J. W. Means, Dr. Zartman.

Lectures: A systematic course dealing with the principles of surgery. The causes, effects and methods of diagnosis and treatment of surgical conditions are discussed.

Conference clinics: Patients from the wards and dispensaries are examined and studied before the class. The methods of teaching are designed to demonstrate the clinical value of the fundamental branches of medical science acquired by the student in the preceding years; to develop his powers of observation and to familiarize him with the principles underlying treatment.

106. Gynecology. Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours. Third year, Medicine. Dr. Fletcher.

A systematic course on the subject of gynecology. Instruments, charts and pathological specimens are also studied.

116. Orthopedic Surgery. One credit hour. First semester. One lecture each week. Total 16 hours. Fourth year, Medicine. Dr. Steinfeld.

A systematic course dealing with the causes and diagnosis of the various deforming diseases, and the principles of their prevention and correction.

Selected cases are presented when possible to illustrate the didactic course.

127-128. Conference Clinics. One credit hour. The year. Two periods each week. Total 96 hours. Fourth year, Medicine. Dr. Wardlow, Dr. Dodd, Dr. Harris, Dr. Fletcher, Dr. Steinfeld, Dr. Baldwin, Dr. Bratton.

Patients from the hospital wards and out-patient department are brought before the class for demonstration and discussion. Emphasis is laid upon the application of clinical and laboratory methods of investigation.

The conferences are held in St. Francis, Protestant and Children's Hospitals thus permitting a selection of the more instructive cases for consideration by the entire class.

111. Operative Surgery. One credit hour. First semester. Forty-eight laboratory hours. Fourth year, Medicine. Open to groups of six students. Dr. Wilson.

The student is required to familiarize himself with the objects and technique of the ordinary and important surgical operations by performing them upon the cadaver and upon animals.

119. Roentgenology. One or two credit hours. Either semester. Elective. Dr. H. J. Means.

Practical demonstrations of plates are made in connection with the conference medical and surgical clinics and section ward-classes. Methods of X-Ray diagnosis are shown, findings interpreted, and comparisons drawn with clinical findings.

HOSPITAL

SURGERY: DR. WARDLOW, DR. DODD, DR. HARRIS, DR. FLETCHER, DR. STEINFELD, DR. BIGELOW, DR. HAMILTON, DR. SHEPARD, DR. MEANS, DR. WILSON, DR. ZARTMAN, DR. LUDWIG.

SURGICAL SPECIALTIES: DR. BROWN, DR. TIMBERMAN, DR. PROUT, DR. BEATTY, DR. CLARK, DR. HAUER, DR. SCHAEFFER

101-102. Hospital Ward Clinics in Surgery and Specialties. Two credit hours. The year. Total 192 hours. Fourth year, Medicine.

The class is divided into sections. Four forenoons each week from 9 to 12 in St. Francis, Protestant, and Children's Hospitals.

All surgical patients admitted to the wards are assigned to the students in rotation. The individual student assigned to a given case is required to record the history, make a complete physical examination, to carry out all routine laboratory tests, and such special examinations and tests as are indicated. He is required to be present and act as assistant or anesthetist in operations upon patients under his charge.

Under instructional supervision he is further required to follow the progress of his patient, doing the necessary dressings and keeping written record of the results of bedside observation.

He is further required to present and demonstrate his patient at section conference.

The class is divided into six sections—one in medicine and one in surgery at each hospital. The sections are rotated every three weeks. Instructional work in the surgical specialties is given in the surgical sections and in the medical specialties in the medical sections.

MEDICAL LAW

Office, 113 Page Hall

PROFESSOR ADAMS

101. Medical Law. One credit hour. Second semester. Sixteen didactic hours. Fourth year, Medicine.

The civil and criminal aspects of legal medicine.

The following topics are covered in the course: The relation of the physician to the state, the medical practice acts, duties and legal rights of physicians, the relation of physicians and their patients, including a discussion in restraint of patients, the right of examination or operation, contracts, malpractice, etc; medical testimony in the court; expert witnesses; wills and nuncupations; insanity laws; legal responsibility for crime; personal injuries; coroners' courts; murder; suicide; rape; pregnancy; abortion; prostitution; marriage; divorce; etc.

SPECIAL LECTURES

Special Lectures. One credit hour. Second semester. Sixteen didactic hours. Fourth year, Medicine.

A series of special lectures is given on the subjects of life insurance examinations, medical ethics and medical economics.

FEES AND EXPENSES

GENERAL CHARGES

All University fees must be paid at the opening of each semester as a condition of admission to classes. Registration is not complete until the fees have been paid. Students are cautioned against trying to register without the necessary money for fees and required deposits. No student has any privileges in the classes or laboratories until all fees and deposits are paid.

College of Medicine: The tuition fee is \$100.00. A deposit of \$50.00, no part of which is returnable, is required for laboratory supplies.

The student must pay \$75.00 at the beginning of each semester—\$50.00 tuition, and \$25.00 laboratory fees, and will not be enrolled in classes until this payment is made. No postponement or reduction of fees is made. No notes are accepted under any circumstances.

Public Health and Sanitation: The registration fee is \$15.00 each semester.

Public Health Nursing: The registration fee is \$15.00 each semester.

Science Nursing: The registration fee is \$15.00 each semester, with the usual deposits for laboratory supplies.

Former students, who do not pay their fees until the third day of the first semester and the second day of the second semester, must pay one dollar additional. For each day of delinquency thereafter fifty cents is added.

MICROSCOPES

All students entering the College of Medicine are required to provide themselves with a microscope. The microscopes, completely equipped, may be secured through the store-room at the University.

THE OHIO UNION

A fee of one dollar a semester is paid by all male students at registration. This entitles the student to all privileges of the Union consistent with the Constitution and House Rules governing it.

RETURN OF FEES

Fees are not returnable except in case of sickness and causes entirely beyond the control of the student. No portion of the fees shall be returned for voluntary withdrawal of the student or enforced withdrawal thirty days after registration. Students withdrawing under discipline forfeit all rights to the return of any portion of the fees. In no case shall more than one-half the fee be refunded.

BREAKAGE AND INCIDENTAL CHARGES

Waste of material or destruction of apparatus in the laboratories or the destruction of college property in general, will be charged against the individual student, section or class.

LOCKER FEES

The gymnasium is free to all students, but those desiring to use a locker are charged a fee of two dollars a semester, which includes the rental of towels.

GRADUATION FEES

A fee of five dollars, to cover expense of graduation and diploma, is required of each person receiving one of the bachelor degrees from the University, and this fee must be paid on or before the last Friday before Commencement. A like fee of ten dollars is charged each person receiving one of the higher graduate degrees.

OTHER EXPENSES

The cost of the required books and instruments in the Medical Course will average about \$35.00 to \$40.00 a year.

Students are required to provide themselves with instruments for their personal use in the anatomical and physiological laboratories, and instruments for examining patients in the dispensaries and hospitals. Senior students are required also to provide themselves with an obstetrical outfit.

A list of necessary instruments to be purchased will be furnished by the teachers in charge of the departments.

The latest editions of text-books on all subjects taught in the different departments can be purchased at the College of Medicine. This is for the convenience of the students. Do not purchase text-books until the instructors have been consulted.

ROOM AND BOARD

Good room and board varies in cost with the location and environments. Comfortable living can be had for \$4.00 to \$5.00 a week. A list of boarding houses, within easy access of the college, at which good board and room can be secured at reasonable prices, may be obtained at the office.

ESTIMATE OF EXPENSES

In order to furnish more specific information, we have listed below an estimate of the average payments required by the University for the first year of the College of Medicine and have estimated the cost for room and boarding at a safe price. These two items are sometimes reduced slightly where two students occupy the same room and where boarding clubs are economically managed.

Tuition Fee.....	\$100 00
Ohio Union.....	2 00
Laboratory Fees	50 00
Microscope	
Books.....	40 00
Board—(36 weeks at \$3.50 per week).....	126 00
Room rent, at \$8.00 per month.....	72 00
General expenses.....	100 00
Total.....	\$490 00

The item of *general expenses* in the above estimate is always subject to the personal habits of the individual, and varies according to the degree of economy exercised.

OPPORTUNITIES FOR SELF-HELP

There are in the city many opportunities to obtain work by which the student may add to his resources. During the summer many students secure remunerative employment in the city. While the college authorities cannot hold themselves under obligation to secure such places, they will aid as far as possible.

STUDENT ASSISTANTSHIPS

A limited number of student assistantships in the several laboratories are available for men who have had laboratory training and who have enough advanced credits to give them time to do the work required. These positions will be assigned only to men who give evidence of good training in the subject in which the assistantship lies and who can present convincing recommendations from former instructors. The compensation will depend upon the amount of time which the assistant is able to give. These assistants are not relieved from the payment of tuition and other fees.



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